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ABSTRACT

This document provides models to guide counselors and secondary students in tailoring programs of study that will allow students to pursue both employment and postsecondary education after graduation. Information on how to use the document to produce a program of study is accompanied by a chart that presents an overview of the entire process. The document then provides information and sample programs of study for clusters of programs, not for individual vocational programs. These programs of study for clusters should prove useful to students who are not sure of which vocational program to select. Cluster information sheets show which courses are common to several vocational programs. Nine program areas are included: agriculture, business, diversified occupations, health occupations, home economics, industrial, marketing, public service, and technology. The first page of each program area lists clusters. A vocational cluster information sheet for each cluster provides vocational courses sequences for this cluster, strongly recommended academic courses, suggested electives, recommended experiences or activities, and career information (lists of occupations students could enter following graduation from high school or postsecondary school). A program of study worksheet showing courses by grade level is also provided for each cluster. A sample information packet to help districts design their own marketing materials is appended. (YLB)

FLORIDA VOCATIONAL

PROGRAMS OF STUDY

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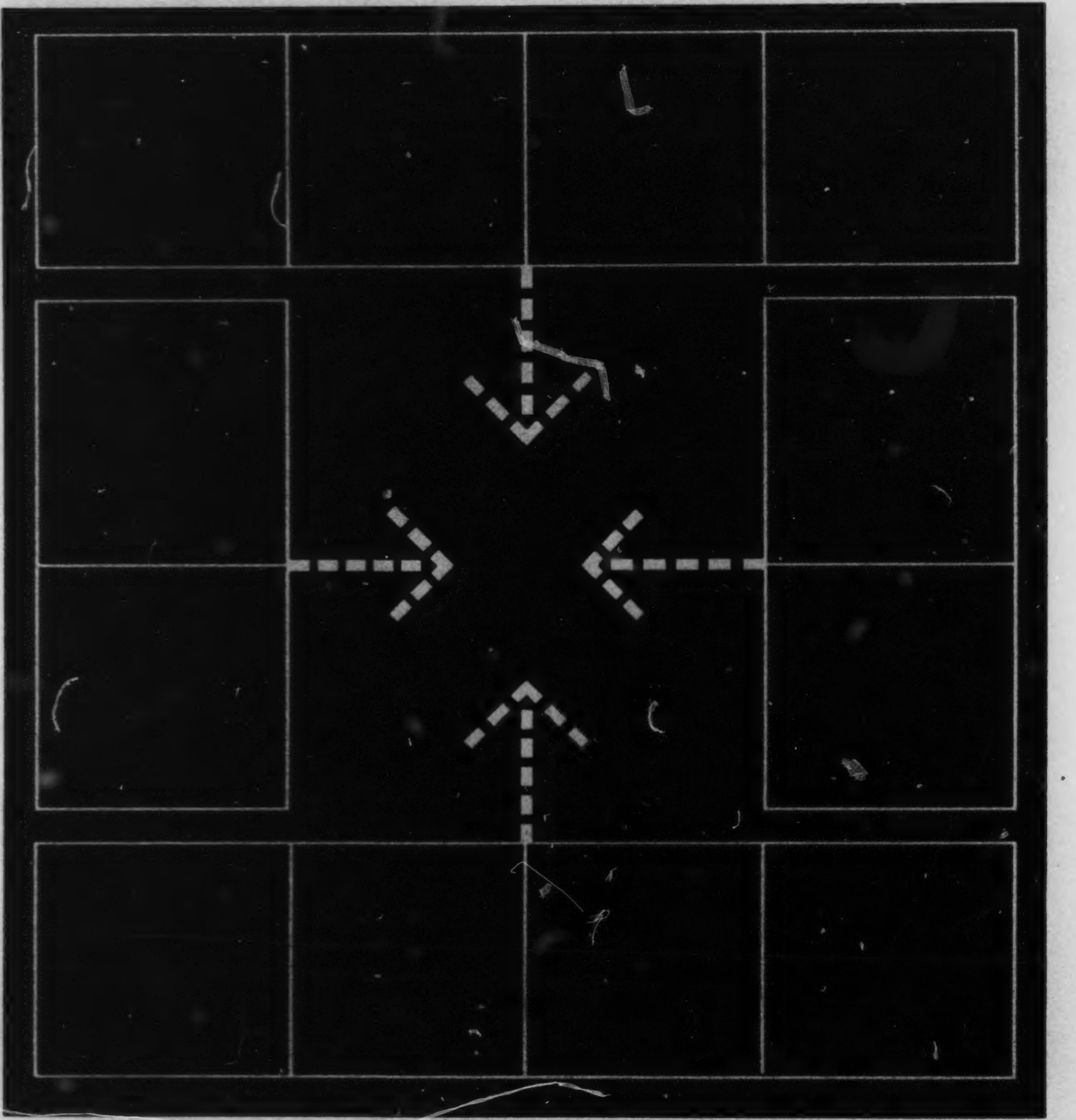

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PROGRAMS OF STUDY

State of Florida
Department of Education
Tallahassee, Florida
Betty Castor, Commissioner
Affirmative action/equal opportunity employer

Division of Vocational, Adult, and Community Education
Bureau of Career Development and Educational Improvement

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FOREWORD

In the summer of 1990, the DVACE distributed a document to Florida school districts entitled *Sample Vocational Program Schedules*. One of the goals of that publication was to raise the expectations of students by suggesting that higher-level academic courses be included in their programs of study. The introduction to that 1990 publication stated:

> The intent is that each student would be assigned academic courses at the highest level of difficulty that the student might be capable of achieving. For example, for a student planning to enter a state university, the academic courses selected would be those appropriate for that person. Applied academic courses would be appropriate for many students, including those planning to enter a community college or area vocational technical center upon graduation from high school. We would discourage the scheduling of low-level academic courses for students except for special reasons that would benefit the student.

The intention of the Division is to have this 1991 publication be consistent with the earlier publication. The reader will notice several differences, however. Whereas the earlier document provided programs of study for individual vocational programs, this document provides information and sample programs of study for clusters of programs. These programs of study for clusters should prove useful to students who are not sure of which vocational program to select and study. Cluster information sheets show which courses are common to several vocational programs. Students may take these until they decide on a specific vocational program.

This document is also different from the 1990 publication in that it provides career information by listing occupations that students could enter following graduation from high school or postsecondary school. Counselors or teachers-as-advisors should find this career information useful in discussing different career paths and education requirements with students.

The development of the enclosed programs of study was partially based upon criteria suggested by the Southern Regional Educational Board (SREB). Consequently, each program of study is designed to:

- Meet and exceed state and local school board minimum requirements for high school graduation.

- Prepare students to enter related employment and provide students with the knowledge and skills necessary to continue to learn in a work or educational setting.

- Provide students with a plan to complete at least three credits each in mathematics and science. (However, four credits are suggested in most situations to maximize students' academic preparation.)

Insofar as possible and as appropriate, courses from the Applied Curriculum sequence were included in many sample programs of study. Their content is suitable both for those students who may go to work immediately after high school or those who may someday go on to postsecondary education. Furthermore, all students are being encouraged to complete coursework in keyboarding and/or computer literacy.

Finally, the programs of study have been designed to accommodate the seven-period-day school situation. The model programs of study were also designed to show students how to complete the courses necessary to be a program completer and be eligible for the Florida Gold Seal Endorsement Program.

INTRODUCTION

Following nearly a decade of educational reforms aimed at raising the performance of high school students in academic subjects in the national debate over school reform and academic excellence, there is now widespread consensus among educators for including vocational education. Florida's initial response to these reforms was the development of the *Blueprint for Career Preparation*. The *Blueprint* made Florida the first state to adopt a policy that "Students graduating from Florida's public schools shall be prepared to begin a career **and** continue their education at a postsecondary technical school, community college, or university."

Concurrent with Florida's adoption of this policy, a national educational movement was underway to get secondary students out of the general education track and into **tech prep**, i.e., technical preparation programs--the assertion being that students not in a college prep/baccalaureate program should be in a tech-prep program.

What is meant by the term *tech prep*? Hull and Parnell, in their 1991 book *Tech Prep/Associate Degree*, suggest that there are two types of tech-prep students. One group is enrolled in a tech-prep/associate-degree program with plans to enter the workforce immediately after high school graduation. The other group is pursuing a secondary program that would help them enter the workforce after grade 14. The academic skill preparation in high school for all tech-prep students needs to adequately prepare them to go on to postsecondary education at any time in life--after graduation, for advanced training when the student or worker needs it, or as the workplace demands it. The programs of study included in this document are designed to meet the needs of tech-prep students and, with some modifications, university-bound students.

People take many different paths in educating themselves and pursuing careers. Some career/education paths that students may follow for their schooling, employment, and advancement in the workplace are summarized in Chart I on page viii. To accommodate students following so many different career/education paths, the Department of Education is committed to providing a variety of programs to meet these diverse needs.

The Division of Vocational, Adult, and Community Education is also committed to responding to diverse student needs by offering a sequence of vocational programs that will: (1) insure that students acquire both the occupational skills as well as the basic academic and employability skills necessary for adapting to workplace changes, advancing within their occupational field, or changing occupations, and (2) insure that students acquire the academic skills necessary to enter and succeed in postsecondary education with little or no remediation.

This document, together with the *Florida Student Career and Education Planner*, is designed to help students plan more relevant secondary programs of study. The *Planner* is meant for students to use as part of a comprehensive career-development program that might include:

1. Self-Assessment
2. Career Decision Making
3. Goal Setting

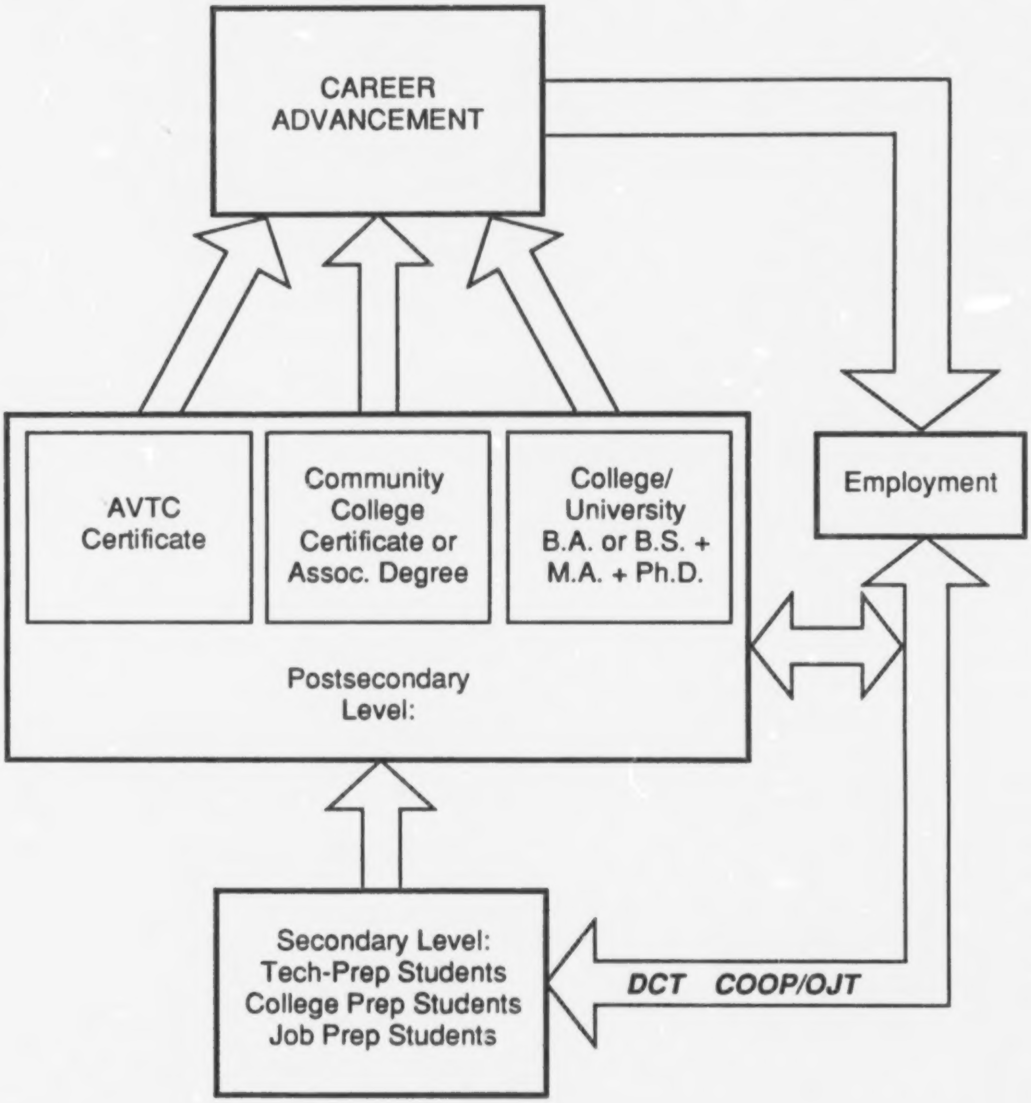
4. Career and Education Planning for High School Coursework
5. Career Preparation

The purpose of the *Planner* is to help each student set career goals and develop a plan for achieving those goals. The *Planner* provides a record for a student's personal data, including interests, aptitudes, course grades, and test scores. A second section includes information on career-field preferences and goals. A third section helps students plan and record which courses they will take in grades 9-12. It is for this third section that the information contained in this publication is intended to be used.

In summary, the purpose of this document is to provide model programs of study to guide counselors and secondary students in tailoring programs of study that will allow them to pursue **both** employment and postsecondary education after graduation. These programs of study are designed to challenge vocational students as well as to equip them with both vocational and academic skills.

CHART I

CAREER/EDUCATION PATH for Vocational Job Placement and Academic Preparation


CAREER ADVANCEMENT
AVTC Certificate
Community College Certificate or Assoc. Degree
College/ University B.A. or B.S. + M.A. + Ph.D.
Employment
Postsecondary Level:
Secondary Level: Tech-Prep Students College Prep Students Job Prep Students
DCT COOP/OJT

HOW TO USE THIS DOCUMENT

In order to use the information contained in this document to produce a program of study, the model described in Chart II on page xi presents an overview of the entire process. Here's how the process might proceed:

Step 1. The counselor or teacher-as-advisor meets with the student and reviews the student's file and, if completed, the four-year *Florida Student Career and Education Planner*, as well. Using an interest inventory such as USES, from the U.S. Department of Labor, or VIEW or CHOICES Jr. from the Florida DVACE, the student selects a career cluster of interest. (For example, the student may select the Nature Cluster. If the student had a printout from the Florida Computer Assisted Career Planning system, the Nature Cluster would be included in the printout.)

Step 2. Next, the student identifies a vocational cluster from this document as a major interest area. (For example, if the student had chosen the Nature Cluster, he or she may select a cluster from within Agriscience, e.g., Cluster #2.)

Step 3. The counselor or teacher-as-advisor then takes the cluster information sheet for Agriscience Cluster #2 and reviews the information about various related occupations. A discussion should follow about the various courses and programs offered at the local high school. The sequence of vocational courses that the student would take across grades 9-12 is examined and discussed.

Note that the sample programs of study display the courses to be taken for programs in each cluster. Sometimes the term *cluster elective* is used. It indicates that the student should elect to take a course from a vocational program in the cluster of his or her choice. For instance, in Home Economics, a cluster elective in Clothing and Textiles might be Alterationist, Custom Garment Making, or Apparel Production. (See page 38.)

Step 4. The student is then asked to select a specific program of study. If the student isn't ready to make a commitment to be trained in a specific program, the student may select a more generic program of study for a cluster. The student is then given the Program of Study Work Sheet. (See the work sheet following the flow chart.) Local districts may alter the work sheet, as needed.

Step 5. Using the work sheet, the student drafts a program of study for either a program or a cluster and takes a copy home to review with a parent or guardian. If possible, the cluster information sheets in the student's interest areas are sent home also. **[Special Note:** A sample information packet about vocational programs at the local high school is included at the back of this document as an information/marketing tool. See pages 111-128.]

Step 6. The parent or guardian discusses the program of study with the student and signs the proposed plan.

Step 7. The student returns the Program of Study Work Sheet to the counselor or teacher-as-advisor; any adjustments or revisions are made at this time.

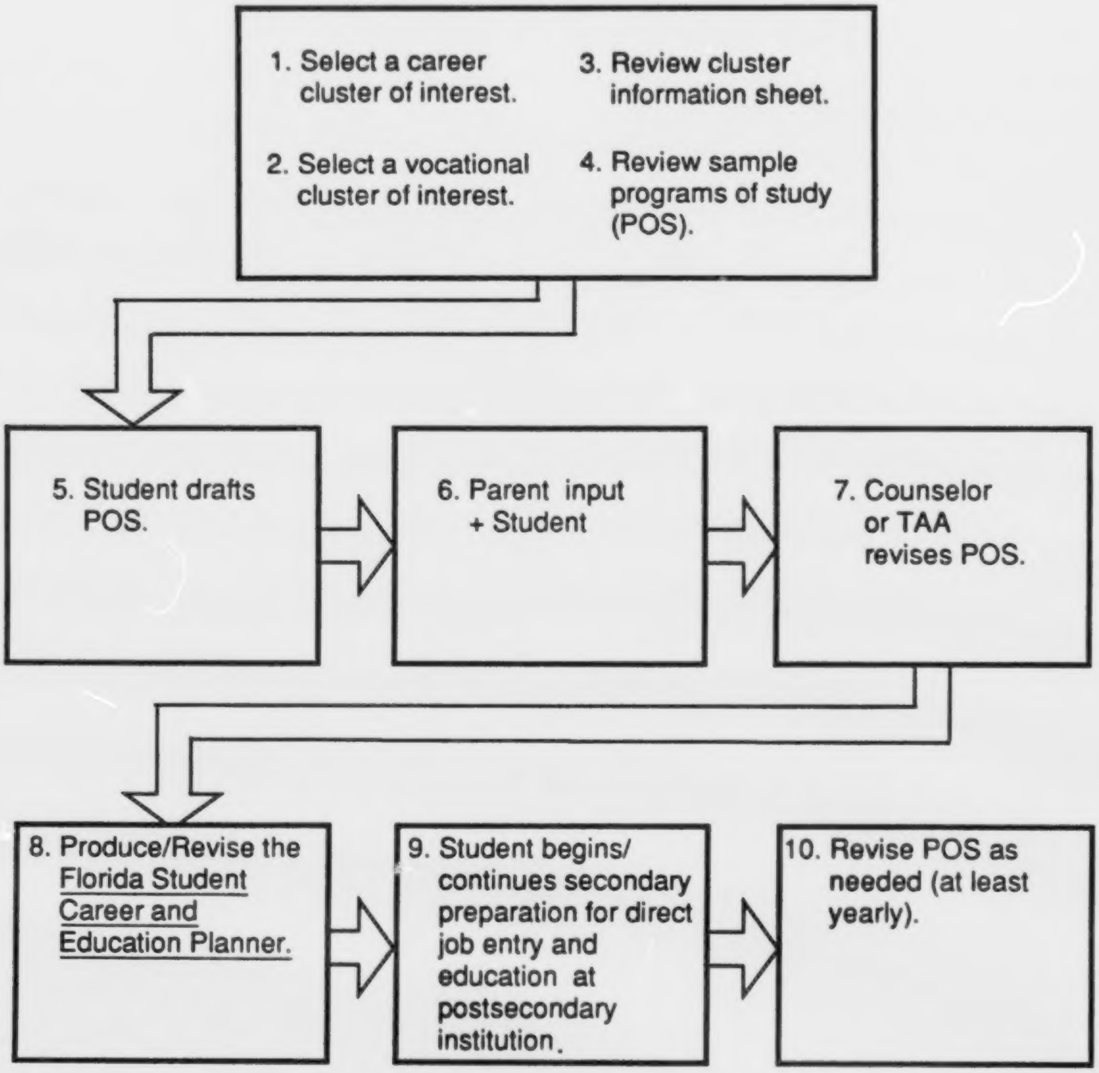
Step 8. The information is then transferred to the student's career and education planner. This is kept by the school and follows the student throughout high school and into postsecondary education

Step 9. When the student's program of study is approved by the school, proper scheduling occurs, and the student begins his or her program of study. (If this process is a revision of an earlier plan, the student launches a new program of study.)

Step 10. The student's program of study or career and education planner is reviewed yearly and adjustments are made to reflect changes in the situation. If a student has not been able to declare a "major" vocational program of study, the counselor or teacher-as-advisor monitors the situation. As soon as possible, a more specific program of study is designed and implemented with parent involvement, as before.

CHART II
The Process: How to Use This Document to Produce a Program of Study

The process begins with the counselor or teacher-as-advisor (TAA) meeting with the student to complete the first four steps.


1. Select a career cluster of interest.
2. Select a vocational cluster of interest.
3. Review cluster information sheet.
4. Review sample programs of study (POS).
5. Student drafts POS.
6. Parent input + Student
7. Counselor or TAA revises POS.
8. Produce/Revise the Florida Student Career and Education Planner.
9. Student begins/ continues secondary preparation for direct job entry and education at postsecondary institution.
10. Revise POS as needed (at least yearly).

PROGRAM OF STUDY WORK SHEET

Student Name

Student I.D.#

Program Area

Program Cluster

Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English	1 English	1 English	1 English
1 Math	1 Math	1 Math	1 Math
1 Science	1 Science	1 Science	1 Science
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Practical Skills or .5 Performing Arts			

* * * * * * * * * * * *

A few final notes. . .

The following pages are divided into various program areas, e.g., Health Occupations Education, Industrial Education, etc. The development of this document focused on some representative job-prep secondary programs, although a section on Technology Education is included.

To help students design their programs of study, counselors, teachers-as-advisors, and other teachers need information to share with students about graduation requirements and vocational training requirements for various careers. It is hoped that this document will serve to provide useful information to make these programs of study both relevant and challenging.

VOCATIONAL CLUSTER INFORMATION SHEETS
AND
SAMPLE PROGRAMS OF STUDY

Agriculture Education

Agriscience Cluster #1
- Agritechnology
- Environmental Horticulture
- Natural Resources and Forest Ecology

Agriscience Cluster #2
- Crop Production
- Livestock Production
- Nursery Operations

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Agriculture Education **VOCATIONAL CLUSTER:** Agriscience #1

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

AGRITECHNOLOGY	ENVIRONMENTAL HORTICULTURE	NATURAL RESOURCES
1 Fund of Agriscience (9)	1 Fund of Agriscience (9)	1 Fund of Agriscience (9)
1 Agriscience Found (10)	1 Agriscience Found (10)	1 Agriscience Found (10)
1 Agritechnology I (11)	1 Intro to Horticulture (11)	1 Forest Ecosystems (11)
1 Agritechnology II (12)	1 Horticulture Science (12)	1 For Nat Resources (12)
1 Applied Ag Skills (12)	1 Applied Ag Skills (12)	1 Applied Ag Skills (12)
-OR-	-OR-	-OR-
1 Ag Coop Ed/OJT (12)	1 Ag Coop Ed/OJT (12)	1 Ag Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, and Botany or Ecology

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus (Honors level as much as possible)
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics, Botany, Ecology, or Biology II
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses

RECOMMENDED EXPERIENCES OR ACTIVITIES: Agribusiness Coop Education/OJT, FFA, and Supervised Agricultural Experiences (SAE) Program

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Farm worker, nursery worker, landscape aide, plant propagator, forest worker, tree planter

Possible Careers after Two Years of Postsecondary Training: Supervisor and farm or forest manager, food technician, inspector, farm machine operator, golf course superintendent, landscaper, landscape designer, greenskeeper, forest technician, forest ecologist

Possible Careers after University Education: Agricultural scientist, agricultural engineer, biological scientist entomologist, nematologist, agronomist, ag economist, food and environmental inspector, landscape architect, ag extension agent, veterinarian, ag journalist, agricultural educator

PROGRAM OF STUDY WORKSHEET

John Smith
Student Name

000-00-0000
Student I.D.#

Agriculture Education
Program Area

Agriscience #1
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 English III	1 English IV
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Chemistry	1 Physics or Botany
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Fund of Agriscience	1 Agriscience Found	1 Agriscience Elective	1 Agriscience Elective
.5 Practical Computer Skills	1 Elective	1 Elective	1 Elective
1 Technology Studies I	1 Foreign Language I	1 Foreign Language II	
.5 Performing Arts			1 Applied Ag Skills -or- 1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Agriculture Education **VOCATIONAL CLUSTER:** Agriscience #2

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

CROP PRODUCTION	LIVESTOCK PRODUCTION	NURSERY OPERATIONS
1 Fund of Agriscience (9)	1 Fund of Agriscience (9)	1 Fund of Agriscience (9)
1 Agriscience Found (10)	1 Agriscience Found (10)	1 Agriscience Found (10)
		1 Intro to Horticulture (11)
2 Agritech 1-2 (10-11)	2 Animal Science 1-2 (11)	1 Horticultural Science (11)
3 Crop Product 4-6 (12)	3 Livestock Prod 4-6 (12)	3 Nursery Operations 1-3 (12)
1 Applied Ag Skills (11)	1 Applied Ag Skills (11)	1 Applied Ag Skills (11)
-OR-	-OR-	-OR-
1 Ag Coop Ed/OJT (12)	1 Ag Coop Ed/OJT (12)	1 Ag Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics, Botany, Ecology, or Biology II
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses, speech, and other communication electives

RECOMMENDED EXPERIENCES OR ACTIVITIES: Agribusiness Coop Education/OJT, FFA, and Supervised Agricultural Experiences (SAE) Program

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: General farmer, vegetable farmer, field crop farming supervisor, livestock rancher, animal breeder, cowpuncher, supervisor, stock rancher, horticultural-specialty grower (inside/field), field inspector, disease and insect control, horticultural worker

Possible Careers after Two Years of Postsecondary Training: Supervisor, business owner, farm manager, farm or ranch owner

Possible Careers after University Education: Farm manager, owner

SAMPLE PROGRAM OF STUDY
FOR AN AGRICULTURE EDUCATION CLUSTER

George D.
Student Name

000-00-0000
Student I.D.#

Agriculture Education
Program Area

Agriscience #2
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Chemistry	1 Princ of Tech
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Fund of Agriscience	1 Agriscience Foundations	1 Cluster Elective	1 Cluster Elective
	1 Foreign Language I	1 Foreign Language II	1 Cluster Elective
1 Elective	1 Elective	1 Cluster Elective	1 Cluster Elective
.5 Elective .5 Performing Arts			

Business Education

Accounting Cluster
  Financial Records
  Bookkeeping
  Accounting Operations

Business Administration Cluster
  Basic Business Supervision
  Business Administration Operations

Clerical Cluster
  Clerk Typist
  Receptionist and Communication Systems Operation
  Office Records Clerk

Data/Word Processing Cluster #1
  Computer Programming
  Computer Operations

Data/Word Processing Cluster #2
  Word Processing/Machine Transcription
  Business Software Applications

Secretarial Cluster
  Stenographic
  Junior Secretary
  Secretarial

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Business Education **VOCATIONAL CLUSTER:** Accounting

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

FINANCIAL RECORDS	BOOKKEEPING	ACCOUNTING OPERATIONS
.5 Practical Financial Skills (9)	.5 Practical Computer Skills (9)	.5 Practical Financial Skills (9)
	.5 Practical Financial Skills (10)	
1 Typewriting 1/Fund (10)	1 Typewriting 1/Fund (10)	1 Typewriting 1/Fund (10)
1 Accounting 1 (11)	1 Accounting 1 (11)	1 Accounting 1 (11)
		1 Office Procedures (11)
	1 Accounting 2 (12)	1 Accounting 2 (12)
1 Bus Computer Appl (12)	1 Bus Computer Appl (12)	1 Bus Computer Appl (12)
1 Business Coop Ed/OJT (12)	1 Business Coop Ed/OJT (12)	1 Business Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and two electives of interest for the student
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses, speech, and other communication electives. Practical Business skills may be substituted for Typewriting 1/Fundamentals.

RECOMMENDED EXPERIENCES OR ACTIVITIES: Business Coop Education/OJT and Future Business Leaders of America

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Bookkeeper, posting clerk, payroll clerk, statistical clerk, bookkeeping clerk, time-keeping clerk, bookkeeping/billing machine operator, senior bookkeeper

Possible Careers after Two Years of Postsecondary Training: Accountant, accounting paraprofessional, file supervisor, records information specialist

Possible Careers after University Education: Accountant, certified public accountant, and auditor

SAMPLE PROGRAM OF STUDY
FOR A BUSINESS EDUCATION CLUSTER

Jane Doe
Student Name

000-00-0000
Student I.D.#

Business Education
Program Area

Accounting
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 English III	1 English IV
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Chemistry	1 Princ of Tech
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Pract Computer Skills	1 Typing 1/Fundamentals	1 Accounting 1	1 Bus Compu Applications
.5 Pract Financial Skills	1 Foreign Language I	1 Foreign Language II	1 Cluster Elective
2 Electives	1 Elective	1 Cluster Elective	1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Business Education **VOCATIONAL CLUSTER:** Business Administration

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

BASIC BUSINESS SUPERVISION	BUSINESS ADMINISTRATION OPERATIONS
.5 Practical Financial Skills (9)	.5 Practical Financial Skills (9)
.5 Practical Computer Skills (9)	.5 Practical Computer Skills (9)
1 Typewriting 1/Fund (10)	1 Typewriting 1/Fund (10)
1 Accounting 1 (11)	1 Accounting 1 (11)
	1 Business Computer Applications 1
1 Business Management and Law (12)	1 Business Management and Law (12)
1 Business Coop Ed/OJT (12)	1 Business Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and two electives of interest for the student
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses, speech, and other communication electives

RECOMMENDED EXPERIENCES OR ACTIVITIES: Business Coop Education/OJT and Future Business Leaders of America

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Manager trainee, forms analyst, personnel clerk, employment interviewer

Possible Careers after Two Years of Postsecondary Training: Personnel/office/business manager, executive assistant, small business owner

Possible Careers after University Education: Executive assistant, small business owner, entrepreneur

SAMPLE PROGRAM OF STUDY
FOR A BUSINESS EDUCATION CLUSTER

Ralph W.
Student Name

000-00-0000
Student I.D.#

Business Education
Program Area

Business Administration
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 English III	1 English IV
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Chemistry	1 Princ of Tech
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Pract Computer Skills	1 Typing 1/Fundamentals	1 Accounting 1	1 Bus Management & Law
.5 Pract Financial Skills	1 Foreign Language I	1 Foreign Language II	1 Cluster Elective
1 Elective	1 Elective	1 Cluster Elective	
.5 Elective .5 Performing Arts			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Business Education **VOCATIONAL CLUSTER:** Clerical

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

CLERK TYPIST	RECEPTIONIST & COMMUNICATION SYSTEMS OPERATION	OFFICE RECORDS CLERK
.5 Pract Keyboard Skills (9)	.5 Pract Keyboard Skills (9)	.5 Pract Finan Skills (9)
.5 Pract Computer Skills (9)	.5 Pract Computer Skills (9)	.5 Pract Compu Skills (9)
1 Typewriting 1/Fund (10)	1 Typewriting 1/Fund (10)	1 Typewriting 1/Fund (10)
1 Office Procedures (11)	1 Office Procedures (11)	1 Office Procedures (11)
1 Word Processing 1 (12)		1 Recordkeeping (12)
1 Business Coop Ed/OJT (12)	1 Business Coop Ed/OJT (12)	1 Business Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and two electives of interest for the student
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses, speech, and other communication electives

RECOMMENDED EXPERIENCES OR ACTIVITIES: Business Coop Education/OJT and Future Business Leaders of America

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Clerk typist, data entry clerk, invoicing clerk, switchboard operator, photocopy machine operator, receptionist, appointment clerk, office records clerk

Possible Careers after Two Years of Postsecondary Training: Office supervisor, office assistant, records supervisor

Possible Careers after University Education: Not applicable

SAMPLE PROGRAM OF STUDY
FOR A BUSINESS EDUCATION CLUSTER

Sue S.
Student Name

000-00-0000
Student I.D.#

Business Education
Program Area

Clerical
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Chemistry	1 Princ of Tech
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Pract Computer Skills	1 Typing 1/Fundamentals	1 Office Procedures	
.5 Pract Keyboard Skills			2 Cluster Electives
1 Elective	2 Electives	2 Electives	
.5 Elective .5 Performing Arts			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Business Education **VOCATIONAL CLUSTER:** Data/Word Processing #1

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

COMPUTER PROGRAMMING	COMPUTER OPERATIONS
.5 Practical Computer Skills (9)	.5 Practical Computer Skills (10)
1 Typewriting 1/Fund (10)	1 Typewriting 1/Fund (10)
1 Bus Computer Appl 1 (11)	1 Bus Computer Appl 1 (11)
1 Bus Computer Programming 1 (11)	1 Bus Computer Appl 2 (12)
1 Bus Computer Programming 2 (12)	
1 Business Coop Ed/OJT (12)	1 Business Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II, or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and two electives of interest for the student
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses, speech, and other communication electives

RECOMMENDED EXPERIENCES OR ACTIVITIES: Business Coop Education/OJT and Future Business Leaders of America

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Computer programmer, business and data control clerk, computer operator, data processing clerk

Possible Careers after Two Years of Postsecondary Training: Computer programmer, computer programmer/analyst

Possible Careers after University Education: Information systems programmer, computer systems designer

SAMPLE PROGRAM OF STUDY
FOR A BUSINESS EDUCATION CLUSTER

David L.
Student Name

000-00-0000
Student I.D.#

Business Education
Program Area

Data/Word Processing #1
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 English III	1 English IV
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Chemistry	1 Princ of Tech
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Pract Computer Skills	1 Typing 1/Fundamentals	1 Bus Computer Appl	
			2 Electives
1 Elective	2 Electives	2 Electives	
1 Elective .5 Performing Arts			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Business Education **VOCATIONAL CLUSTER:** Data/Word Processing #2

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

WORD PROCESSING/MACHINE TRANSCRIPTION	BUSINESS SOFTWARE APPLICATIONS
.5 Practical Computer Skills (9)	.5 Practical Computer Skills (9)
1 Typewriting 1/Fund (10)	1 Typewriting 1/Fund (10)
1 Office Procedures (11)	
1 Word Processing 1 (11)	1 Bus. Computer Appl 1 (11)
1 Word Processing 2 (12)	1 Software Appl 1 (11)
	1 Software Appl 2 (12)
1 Business Coop Ed/OJT (12)	1 Business Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and two electives of interest for the student
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses, speech, and other communication electives

RECOMMENDED EXPERIENCES OR ACTIVITIES: Business Coop Education/OJT and Future Business Leaders of America

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Word processor, word processing clerk, transcribing machine operator, detail programmer, software application specialist

Possible Careers after Two Years of Postsecondary Training: Word processing supervisor, correspondence center supervisor, data processing center supervisor

Possible Careers after University Education: Business owner, teacher

SAMPLE PROGRAM OF STUDY
FOR A BUSINESS EDUCATION CLUSTER

Ann P.
Student Name

000-00-0000
Student I.D.#

Business Education
Program Area

Data/Word Processing #2
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Chemistry	1 Princ of Tech
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Pract Computer Skills	1 Typing 1/Fundamentals	1 Bus Computer Appl	
			2 Electives
1 Elective	2 Electives	2 Electives	
1 Elective .5 Performing Arts			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Business Education **VOCATIONAL CLUSTER:** Secretarial

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

STENOGRAPHIC	JUNIOR SECRETARY	SECRETARIAL
.5 Practical Notetaking (9)	.5 Practical Notetaking (9)	.5 Practical Notetaking (9)
1 Typewriting 1/Fund (10)	1 Typewriting 1/Fund (10)	1 Typewriting 1/Fund (10)
1 Office Procedures (10)	1 Office Procedures (11)	1 Office Procedures (11)
1 Shorthand 1 (12)	1 Shorthand 1 (11)	1 Shorthand 1 (11)
		1 Shorthand 2 (12)
	1 Word Processing 1 (12)	1 Word Processing 1 (12)
1 Business Coop Ed/OJT (12)	1 Business Coop Ed/OJT (12)	1 Business Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and two electives of interest for the student
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Practical computer skills or other computer courses, speech, and other communication electives. Practical Business Skills may be substituted for Typewriting 1/ Fundamentals.

RECOMMENDED EXPERIENCES OR ACTIVITIES: Business Coop Education/OJT and Future Business Leaders of America

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Stenographer, secretarial trainee, junior stenographer, senior stenographer, junior secretary, office assistant trainee, administrative assistant trainee, general secretary, secretary assistant, correspondence assistant, office systems assistant, software application assistant

Possible Careers after Two Years of Postsecondary Training: Typesetter, office supervisor

Possible Careers after University Education: Office manager, supervisor

SAMPLE PROGRAM OF STUDY
FOR A BUSINESS EDUCATION CLUSTER

Frances T.
Student Name

000-00-0000
Student I.D.#

Business Education
Program Area

Secretarial
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Chemistry	1 Princ of Tech
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Pract Notetaking	1 Typing 1/Fundamentals	1 Office Procedures	
.5 Pract Keyboard Skills		1 Shorthand 1	2 Cluster Electives
1 Elective	2 Electives	1 Elective	
.5 Elective .5 Performing Arts			1 Coop Ed/OJT

Diversified Occupations Education

Diversified Cooperative Training Cluster

- Diversified Cooperative Training (DCT)
- (No other secondary programs are in this cluster.)

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Diversified Occupations Education **VOCATIONAL CLUSTER:** Diversified Cooperative Training

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

DIVERSIFIED COOPERATIVE TRAINING (DCT) [No other secondary programs are in this cluster.]

1 Practical Business Skills (9)

.5 Explor Vocational Occup (9)

.5 Practical Computer Skills (9)

.5 Practical Employability Skills (9)

2 Diversified Coop Training 1-2 (11-12)

1 + DCT/OJT (12) [Multiple credits available]

1 Business Ownership (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and one other lab-oriented science course elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses, speech, and other communication electives

RECOMMENDED EXPERIENCES OR ACTIVITIES: Cooperative Education Clubs of Florida (CECF)

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Wide range of vocational careers

Possible Careers after Two Years of Postsecondary Training: Wide range of vocational careers

Possible Careers after University Education: A variety of vocational careers are possible.

SAMPLE PROGRAM OF STUDY FOR A MARKETING CLUSTER

Jason J.
Student Name

000-00-0000
Student I.D.#

Diversified Occupations Education
Program Area

Diversified Cooperative Training (DCT)
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Principles of Tech I	1 Principles of Tech II
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Practical Computer Skills .5 Pract Employability Skills	1 Vocational Elective	1 DCT	1 DCT
1 Pract Business Skills		1 DCT/OJT	1 Business Ownership
.5 Explor Vocational Occup	1 Elective		1 DCT/OJT
.5 Performing Arts	1 Foreign Language I	1 Foreign Language II	

Health Occupations Education

Medical Laboratory Occupations Cluster
Medical Laboratory Assisting
(Only one secondary program in the cluster)

Nursing Related Occupations Cluster
Home Health Aide
Patient Care Assistant
Nursing Assistant

Ophthalmic Occupations Cluster
Vision Care Assisting
(Only one secondary program in the cluster)

Other Allied Health Occupations Cluster
Health Service Occupations
Applied Medical Science

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Health Occupations Education **VOCATIONAL CLUSTER:** **Medical Laboratory Occupations**

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

MEDICAL LABORATORY ASSISTING [Only one secondary program in this cluster]

1 Pract Health Skills I-II (9-10)

.5 Practical Computer Skills (9)

.5 Medical Skills & Services (10)

3 Medical Lab Assist 1-3 (11-12)

1 Health Occ Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and one other lab-oriented science course elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses and other communication electives

RECOMMENDED EXPERIENCES OR ACTIVITIES: Health Occupations Coop Education/OJT and Health Occupations Students of America

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Medical/clinical lab technician, medical laboratory aide

Possible Careers after Two Years of Postsecondary Training: Medical/clinical laboratory technologist, medical laboratory technologist (associate degree)

Possible Careers after University Education: Medical technologist, medical laboratory supervisor

SAMPLE PROGRAM OF STUDY
FOR A HEALTH OCCUPATIONS CLUSTER

Laura V.
Student Name

000-00-0000
Student I.D.#

Health Occupations Education
Program Area
Medical Laboratory Occupations
Program Cluster
Medical Laboratory Assisting
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 English III	1 English IV
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Science, e.g., Chemistry	1 Science, e.g., Anat & Physiol
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Pract Health Skills I,II	.5 Medical Skills & Services	1 Medical Lab Assist 1	1 Medical Lab Assist 2
.5 Pract Computer Skills	1.5 Electives		1 Medical Lab Assist 3
1 Elective	1 Foreign Language I	1 Foreign Language II	
.5 Performing Arts		1 Elective	1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Health Occupations Education **VOCATIONAL CLUSTER:** Nursing Related Occupations

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

HOME HEALTH AIDE	PATIENT CARE ASSISTANT	NURSING ASSISTANT
1 Pract Health Skills I-II (9-10)	1 Pract Health Skills I-II (9-10)	1 Pract Health Skills I-II (9-10)
.5 Practical Computer Skills (9)	.5 Practical Computer Skills (9)	.5 Practical Computer Skills (9)
.5 Medical Skills & Services (10)	.5 Medical Skills & Services (10)	.5 Medical Skills & Services (10)
1 Nutrition & Diet Serv (11)	1 Typewriting 1/Fund (10)	1 Typewriting 1/Fund (10)
1 Home Health Aide (11)	2 Patient Care Assistant 1,2 (11)	1 Nursing Assistant (11)
1 Health Occ Coop Ed/OJT (12)	1 Health Occ Coop Ed/OJT (12)	2 Health Coop Ed/OJT(11-12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and one other lab-oriented science course elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses and other communication electives

RECOMMENDED EXPERIENCES OR ACTIVITIES: Health Occupations Coop Education/OJT and Health Occupations Students of America

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Home attendant, home health aide, health care technician, advanced nursing assistant, patient care assistant, nursing assistant, nurse's aide

Possible Careers after Two Years of Postsecondary Training: Practical nursing (only one year of postsecondary education is needed), ADN nursing, head nurse

Possible Careers after University Education: Nursing, nursing supervisor, nursing home administrator, public health administrator, program manager

SAMPLE PROGRAM OF STUDY
FOR A HEALTH OCCUPATIONS CLUSTER

Sarah S.
Student Name

000-00-0000
Student I.D.#

Health Occupations Education
Program Area
Nursing Related Occupations
Program Cluster
To be determined later by the student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 English III	1 English IV
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Science, e.g., Chemistry	1 Science, e.g., Anat & Physiol
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Pract Health Skills I,II	.5 Medical Skills & Services	1 Cluster Elective	1 Cluster Elective
.5 Pract Computer Skills	1.5 Electives		
1 Elective	1 Foreign Language I	1 Foreign Language II	1 Cluster Elective
.5 Performing Arts		1 Elective	1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Health Occupations Education **VOCATIONAL CLUSTER:** Ophthalmic Occupations

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

VISION CARE ASSISTING [Only one secondary program in this cluster]

1 Pract Health Skills I-II (9-10)

.5 Practical Computer Skills (9)

.5 Medical Skills & Services (10)

6 Vision Care Assist 1-6 (10-12)

1 Health Occ Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and one other lab-oriented science course elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses and other communication electives

RECOMMENDED EXPERIENCES OR ACTIVITIES: Health Occupations Coop Education/OJT and Health Occupations Students of America

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Opticians' assistant, lens grinder's assistant

Possible Careers after Two Years of Postsecondary Training: Ophthalmic assistant, optician apprentice, dispensing optician, optician, ophthalmic technician, optometric assistant

Possible Careers after University Education: Optometrist

SAMPLE PROGRAM OF STUDY
FOR A HEALTH OCCUPATIONS CLUSTER

Jane M.
Student Name

000-00-0000
Student I.D.#

Health Occupations Education
Program Area
Ophthalmic Occupations
Program Cluster
Vision Care Assisting
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 English III	1 English IV
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Science, e.g., Chemistry	1 Science, e.g., Anat & Physiol
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Pract Health Skills I,II	1 Vision Care Assist 1	1 Vision Care Assist 3	1 Vision Care Assist 5
.5 Pract Computer Skills	1 Vision Care Assist 2	1 Vision Care Assist 4	1 Vision Care Assist 6
1 Elective	1 Foreign Language I	1 Foreign Language II	
.5 Performing Arts			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Health Occupations Education **VOCATIONAL CLUSTER:** Other Allied Health Occupations

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

HEALTH SERVICE OCCUPATIONS	APPLIED MEDICAL SCIENCE
1 Pract Health Skills I-II (9-10)	1 Pract Health Skills I-II (9-10)
.5 Practical Computer Skills (9)	.5 Practical Computer Skills (9)
.5 Medical Skills & Services (10)	.5 Medical Skills & Services (10)
1 Typewriting 1/Fund (10)	1 Typewriting 1/Fund (10)
3 Health Serv Occup 1-3 (11-12)	3 Applied Med Science 1-3 (11-12)
2 Health Occ Coop Ed/OJT (12)	1 Health Occ Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and one other lab-oriented science course elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses and other communication electives

RECOMMENDED EXPERIENCES OR ACTIVITIES: Health Occupations Coop Education/OJT and Health Occupations Students of America

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Health aide, allied health aide, medical laboratory assistant, occupational therapy aide, physical therapy aide, respiratory therapy aide or radiology aide, nursing assistant, nurse's aide

Possible Careers after Two Years of Postsecondary Training: ADN nursing, respiratory therapist, radiation technician, physical therapist assistant, practical nursing, medical laboratory technician

Possible Careers after University Education: Nursing, physical therapist, medical technologist, occupational therapist

SAMPLE PROGRAM OF STUDY
FOR A HEALTH OCCUPATIONS CLUSTER

Kris L.
Student Name

000-00-0000
Student I.D.#

Health Occupations Education
Program Area
Other Allied Health Occupations
Program Cluster
To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 English III	1 English IV
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Science, e.g., Chemistry	1 Science, e.g., Anat & Physiol
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Pract Health Skills I,II	.5 Medical Skills & Services	1 Cluster Elective	1 Cluster Elective
.5 Pract Computer Skills	1.5 Electives		
1 Elective	1 Foreign Language I	1 Foreign Language II	1 Elective
.5 Performing Arts		1 Elective	1 Coop Ed/OJT

Home Economics Education

Clothing and Textiles Cluster
- Alterationist
- Custom Garment Making
- Apparel Production

Food and Nutrition Cluster
- Food Production and Services
- Nutrition and Dietetic Services

Housing and Home Furnishings Cluster
- Home Furnishings Production
- (Note: This is the only job-prep program in this cluster.)

Human Development and Family Relationships Cluster
- Child Care Assisting
- Child Care Supervisor

Management and Family Economics Cluster
- Home and Family Management
- Institutional and Residential Services

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Home Economics Education **VOCATIONAL CLUSTER:** Clothing and Textiles

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

ALTERATIONIST	CUSTOM GARMENT MAKING	APPAREL PRODUCTION
.5 Life Management Skills (9)	.5 Life Management Skills (9)	.5 Life Management Skills (9)
.5 Prin of Clothing Constr (9)	.5 Prin of Clothing Constr (9)	.5 Prin of Clothing Constr (9)
.5 Pract Computer Skills (9)	.5 Pract Computer Skills (9)	.5 Pract Computer Skills (9)
.5 Personal Clothing (9)	.5 Personal Clothing (9)	.5 Personal Clothing (9)
3 Alterationist 1-3 (10-12)	3 Cust Garm Making 1-3 (10-12)	3 Apparel Prod 1-3 (10-12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II,and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and one other lab-oriented science course elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses, other communication electives, Art, Psychology, Home and Family Relationships

RECOMMENDED EXPERIENCES OR ACTIVITIES: The Future Homemakers of America/Home Economics Related Occupations (FHA/HERO)

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Alteration tailor, power sewing machine operator, sewing machine operator, garment maker, garment fitter, custom tailor, and sewer

Possible Careers after Two Years of Postsecondary Training: Clothes designer, pattern maker, sample maker, sample stitcher, pattern grader, designer, fashion designer, fashion artist, draper, business owner, manager

Possible Careers after University Education: Fashion designer, fashion merchandiser

SAMPLE PROGRAM OF STUDY FOR A HOME ECONOMICS CLUSTER

Kelly G.
Student Name

000-00-0000
Student I.D.#

Home Economics Education
Program Area

Clothing and Textiles
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Science Elective	1 Science Elective
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Prin of Clothing Constr	1 Cluster Elective	1 Cluster Elective	1 Cluster Elective
.5 Pract Computer Skills .5 Personal Clothing	1 Elective	1 Elective	1 Elective
1 Elective	1 Elective	1 Elective	1 Elective
.5 Performing Arts			

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Home Economics Education **VOCATIONAL CLUSTER:** Food and Nutrition

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

FOOD PRODUCTION AND SERVICES	NUTRITION AND DIETETIC SERVICES
.5 Life Management Skills (9)	.5 Life Management Skills (9)
.5 Prin of Food Prep (9)	.5 Prin of Food Prep (9)
.5 Nutrition & Food Choices (9)	.5 Nutrition & Food Choices (9)
.5 Practical Computer Skills (9)	.5 Practical Computer Skills (9)
.5 Pract Homemaking Skills (9)	.5 Pract Homemaking Skills (9)
3 Food Prod & Services 1-3 (10-12)	1 Dietetic Aide (11)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and one other lab-oriented science course elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses, other communication electives, Psychology, Home and Family Management

RECOMMENDED EXPERIENCES OR ACTIVITIES: The Future Homemakers of America/Home Economics Related Occupations (FHA/HERO)

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Baker's helper, bread and pastry baker, cook, restaurant service worker, fast-food restaurant worker, cook's helper, diet clerk, dietary aide, and other food-service worker

Possible Careers after Two Years of Postsecondary Training: Dietetic manager, dietetic technician, bakery owner, restaurant owner, food-service supervisor, cook, chef

Possible Careers after University Education: Dietitian, nutritionist, food technologist

SAMPLE PROGRAM OF STUDY
FOR A HOME ECONOMICS CLUSTER

Mary Ann P.
Student Name

000-00-0000
Student I.D.#

Home Economics Education
Program Area

Food and Nutrition
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Science Elective	1 Science Elective
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Prin of Food Prep	1 Cluster Elective	1 Cluster Elective	1 Cluster Elective
.5 Pract Computer Skills .5 Pract Homemaking Skills	1 Elective	1 Elective	1 Elective
.5 Elective .5 Nutrition & Food Choices	1 Elective	1 Elective	1 Elective
.5 Performing Arts			

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Home Economics Education **VOCATIONAL CLUSTER:** Housing and Home Furnishings

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

HOME FURNISHINGS PRODUCTION: (Note: This is the only job-prep program in this cluster.)

.5 Life Management Skills (9)

.5 Pract Homemaking Skills (9)

.5 Housing & Home Furn (9)

3 Home Furn Production 1-3 (10-12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and one other lab-oriented science course elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses, other communication electives, Psychology, Art

RECOMMENDED EXPERIENCES OR ACTIVITIES: The Future Homemakers of America/Home Economics Related Occupations (FHA/HERO)

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Sewing machine operator, drapery and upholstery measurer, slipcover sewer

Possible Careers after Two Years of Postsecondary Training: Business owner, assistant designer, sales representative, home furnisher, drapery and upholstery measurer, buyers' assistant, designer, color expert, display manager, merchandise displayer

Possible Careers after University Education: Interior designer, interior decorator, designer, fashion merchandiser

Alan S.
Student Name

000-00-0000
Student I.D.#

SAMPLE PROGRAM OF STUDY FOR A HOME ECONOMICS CLUSTER

Home Economics Education
Program Area

Housing and Home Furnishings
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Science Elective	1 Science Elective
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Pract Homemaking Skills	1 Home Furn Production 1	1 Home Furn Production 2	1 Home Furn Production 3
1 Elective	1 Elective	1 Elective	1 Elective
1 Elective	1 Elective	1 Elective	1 Elective
.5 Performing Arts			

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Home Economics Education **VOCATIONAL CLUSTER:** Human Development and Family Relationships

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

CHILD CARE ASSISTING	CHILD CARE SUPERVISOR
.5 Life Management Skills (9)	.5 Life Management Skills (9)
.5 Family Living (9)	.5 Family Living (9)
.5 Parenting (9)	.5 Parenting (9)
.5 Child Development (9)	.5 Child Development (9)
3 Child Care Assist 1-3 (10-12)	3 Child Care Assist 1-3 (10-12)
	2 Child Care Superv 1-2 (10-12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and one other lab-oriented science course elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses, other communication electives, Psychology, Art, Music, Home and Family Management

RECOMMENDED EXPERIENCES OR ACTIVITIES: The Future Homemakers of America/Home Economics Related Occupations (FHA/HERO)

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Childcare attendant, childcare aide, childcare worker, nursery school attendant, associate teacher, child development associate, child development specialist

Possible Careers after Two Years of Postsecondary Training: Family day-care home operator, clinic day- care operator

Possible Careers after University Education: Teaching, nursery school teacher, prekindergarten teacher, kindergarten teacher

SAMPLE PROGRAM OF STUDY FOR A HOME ECONOMICS CLUSTER

Dorothy B.
Student Name

000-00-0000
Student I.D.#

Home Economics Education
Program Area

Human Development and Family Relationships
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Science Elective	1 Science Elective
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Parenting .5 Child Development	1 Child Care Assist 1	1 Child Care Assist 2	1 Elective
1 Home & Family Manage	1 Elective	1 Child Care Assist 3	2 Electives
.5 Family Living	1 Foreign Language I	1 Foreign Language II	
.5 Performing Arts			

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Home Economics Education **VOCATIONAL CLUSTER:** Management and Family Economics

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

HOME AND FAMILY MANAGEMENT	INSTITUTIONAL AND RESIDENTIAL SERVICES
.5 Life Management Skills (9)	.5 Life Management Skills (9)
.5 Practical Computer Skills (9)	.5 Pract Homemaking Skills (9)
.5 Pract Homemaking Skills (9)	3 Inst & Residential Services 1-3 (10-12)
.5 Personal and Family Finance (9-12)	
1 Home and Family Management (10-12)	

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and one other lab-oriented science course elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses, other communication electives, Psychology

RECOMMENDED EXPERIENCES OR ACTIVITIES: The Future Homemakers of America/Home Economics Related Occupations (FHA/HERO)

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Homemaker-wage earner (for Home and Family Management students), housekeeper, house cleaner, laundry worker, linen room attendant, commercial or institutional cleaner, wall cleaner, floor cleaner, supervisor

Possible Careers after Two Years of Postsecondary Training: Homemaker-wage earner (for Home and Family Management students)

Possible Careers after University Education: Homemaker-wage earner (for Home and Family Management students)

SAMPLE PROGRAM OF STUDY
FOR A HOME ECONOMICS CLUSTER

Jenny T.
Student Name

000-00-0000
Student I.D.#

Home Economics Education
Program Area

Management and Family Economics
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Science Elective	1 Science Elective
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Pract Homemaking Skills	.5 Personal and Fam Finance	1 Elective	1 Elective
.5 Family Living .5 Pract Computer Skills	1 Home & Family Manage	1 Elective	1 Elective
1 Elective	1.5 Electives	1 Elective	1 Elective
.5 Performing Arts			

Industrial Education

Building Trades and Related Technologies Cluster #1
- Carpentry Skills
- Masonry Skills
- Advanced Masonry Skills

Building Trades and Related Technologies Cluster #2
- Basic Cabinetmaking and Millwork
- Residential Electric Wiring
- Residential Plumbing

Building Trades and Related Technologies Cluster #3
- Painting and Decorating
- Building Maintenance
- Floor Covering Installation

Culinary Arts and Related Technologies Cluster
- Commercial Foods
- Essentials of Food Production
- Essentials of Commercial Foods

Drafting and Related Technologies Cluster
- Drafting
- Architectural Drafting Skills
- Mechanical Drafting Skills

Electrical Trades and Related Technologies Cluster
- Industrial Electricity
- (No other secondary programs in this cluster)

Electronics and Related Technologies Cluster
- Electronics
- Consumer Electronics Repair
- Micro Computer Electronics

Graphic Trades and Related Technologies Cluster
- Basic Commercial Art
- Basic Commercial Photography
- Printing

Marine Related Technologies Cluster
- Marine Mechanics
- Commercial Fishing
- Barge and Boat Operation

Metal Trades and Related Technolgies Cluster
- Metal Fabrication
- General Machining
- Basic Welding

Refrigeration, Air Conditioning/Heating Technologies Cluster
- Air Conditioning, Refrigeration and Heating Mechanics
- Residential Appliance and Refrigeration Repair

Services Related Technologies Cluster
- Shoe Repair and Leatherwork
- Basic Upholstery and Furniture Refinishing
- Cosmetology

Transportation Related Technologies Cluster
- Automotive Mechanics
- Basic Gasoline Engine Mechanics
- Diesel Engine Mechanics

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Industrial Education **VOCATIONAL CLUSTER:** Building Trades and Related Technologies #1

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

CARPENTRY SKILLS	MASONRY SKILLS	ADVANCED MASONRY
1 Pract Const Trades (9)	1 Pract Const Trades (9)	1 Pract Const Trades (9)
4 Carpentry Skills 1-4 (11-12)	4 Masonry Skills 1-4 (11-12)	4 Masonry Skills 1-4 (10-11)
		2 Adv Masonry Skills 1-2 (12)
1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Principles of Technology, and a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses such as Practical Keyboarding Skills, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: Industrial Coop Education/OJT and Vocational Industrial Clubs of America, Inc.

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Carpenter's helper, masonry and tile setter's helper, bricklayer's helper, brickmason, stonemason, concrete finisher

Possible Careers after Two Years of Postsecondary Training: Business owner, contractor, building inspector

Possible Careers after University Education: Building construction manager, construction engineering technologist, teacher

SAMPLE PROGRAM OF STUDY FOR AN INDUSTRIAL EDUCATION CLUSTER

Tom S.
Student Name

000-00-0000
Student I.D.#

Industrial Education
Program Area

Building Trades/Related Technologies #1
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Practical Const Trades	1 Elective	1 Carpentry or Masonry 1	1 Carpentry or Masonry 3
2 Electives	1 Elective	1 Carpentry or Masonry 2	1 Carpentry or Masonry 4
	1 Elective	1 Elective	
			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Industrial Education **VOCATIONAL CLUSTER:** Building Trades and Related Technologies #2

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

BASIC CABINETMAKING AND MILLWORK	RESIDENTIAL ELECTRIC WIRING	RESIDENTIAL PLUMBING
1 Pract Const Trades (9)	1 Pract Const Trades (9)	1 Pract Const Trades (9)
6 Basic Cabinetmaking and Millwork 1-6 (10-12)	6 Res Elec Wiring 1-6 (10-12)	6 Res Plumbing 1-6 (10-12)
1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Principles of Technology, and a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses such as Practical Keyboarding Skills, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: Industrial Coop Education/OJT and Vocational Industrial Clubs of America, Inc.

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Cabinetmaker apprentice, woodworking machine operator, electrician, residential electrician's helper, plumber, pipefitter

Possible Careers after Two Years of Postsecondary Training: Business owner, engineering technician

Possible Careers after University Education: Engineering technologist, teacher

SAMPLE PROGRAM OF STUDY FOR AN INDUSTRIAL EDUCATION CLUSTER

Mark G.
Student Name

000-00-0000
Student I.D.#

Industrial Education
Program Area

Building Trades/Related Technologies #2
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Practical Const Trades	1 Bldg Trades Elective 1	1 Bldg Trades Elective 3	1 Bldg Trades Elective 5
2 Electives	1 Bldg Trades Elective 2	1 Bldg Trades Elective 4	1 Bldg Trades Elective 6
	1 Elective	1 Elective	
			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Industrial Education **VOCATIONAL CLUSTER:** Building Trades and Related Technologies #3

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

PAINTING AND DECORATING	BUILDING MAINTENANCE	FLOOR COVERING INSTALLATION
1 Pract Const Trades (9)	1 Pract Const Trades (9)	1 Pract Const Trades (9)
4 Painting & Decor 1-4 (11-12)	6 Building Maint 1-6 (10-12)	3 Floor Covering 1-3 (11-12)
1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Principles of Technology, and a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses such as Practical Keyboarding Skills, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: Industrial Coop Education/OJT and Vocational Industrial Clubs of America, Inc.

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Painter, paperhanger, painter's helper, plasterer's helper, general maintenance repairer, mobile home installer, floor sanding machine operator, construction helper, fence erector, floor layer, carpet installer

Possible Careers after Two Years of Postsecondary Training: Business owner, contractor, building inspector

Possible Careers after University Education: Building construction management, teacher

Sandy R.
Student Name

000-00-0000
Student I.D.#

SAMPLE PROGRAM OF STUDY FOR AN INDUSTRIAL EDUCATION CLUSTER

Industrial Education
Program Area

Building Trades/Related Technologies #3
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Practical Const Trades	1 Bldg Trades Elective 1	1 Bldg Trades Elective 3	1 Bldg Trades Elective 5
2 Electives	1 Bldg Trades Elective 2	1 Bldg Trades Elective 4	1 Bldg Trades Elective 6
	1 Elective	1 Elective	
			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Industrial Education **VOCATIONAL CLUSTER:** Culinary Arts and Related Technologies

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

COMMERCIAL FOODS	ESSENTIALS OF FOOD PRODUCTION	ESSENTIALS OF COMMERCIAL FOODS
1 Pract Commer Foods (9)	1 Pract Commer Foods (9)	1 Pract Commer Foods (9)
6 Commer Foods 1-6 (10-12)	3 Commer Foods 1-3 (12)	5 Commer Foods 1-5 (10-12)
1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics or another lab science elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer application courses such as Practical Keyboarding, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: Industrial Coop Education/OJT and Vocational Industrial Clubs of America, Inc.

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Restaurant cook, specialty cook, cook's helper, food preparation worker, meat cutter

Possible Careers after Two Years of Postsecondary Training: Restaurant chef, business owner

Possible Careers after University Education: Teacher

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Allen D.
Student Name

000-00-0000
Student I.D.#

SAMPLE PROGRAM OF STUDY FOR AN INDUSTRIAL EDUCATION CLUSTER

Industrial Education
Program Area

Culinary Arts and Related Technologies
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Algebra or Applied Math I	1 Alg II or Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Practical Commer Foods	1 Cluster Elective 1	1 Cluster Elective 3	1 Cluster Elective 5
2 Electives	1 Cluster Elective 2	1 Cluster Elective 4	1 Cluster Elective 6
	1 Foreign Lang I	1 Foreign Lang II	
			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Industrial Education **VOCATIONAL CLUSTER:** Drafting and Related Technologies

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

DRAFTING	ARCHITECTURAL DRAFTING SKILLS	MECHANICAL DRAFTING SKILLS
1 Pract Drafting* (9)	1 Pract Drafting* (9)	1 Pract Drafting* (9)
4 Drafting Skills 1-4 (11-12)	4 Drafting Skills 1-4 (10-11)	4 Drafting Skills 1-4 (10-11)
	1 Arch Draft Skills 1 (12)	1 Mech Draft Skills 1 (12)
	1 Arch Draft Skills 2 (12)	1 Mech Draft Skills 2 (12)
1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)

***Note:** Practical Drafting course will be offered for the first time in 1992-93.

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Physics, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses such as Practical Keyboarding Skills, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: Industrial Coop Education/OJT and Vocational Industrial Clubs of America, Inc.

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Drafter, drafting assistant, junior mechanical drafter

Possible Careers after Two Years of Postsecondary Training: Drafting technician, engineering technician

Possible Careers after University Education: Drafter, teacher

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John W.
Student Name

000-00-0000
Student I.D.#

SAMPLE PROGRAM OF STUDY FOR AN INDUSTRIAL EDUCATION CLUSTER

Industrial Education
Program Area

Drafting and Related Technologies
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Algebra or Applied Math I	1 Alg II or Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Practical Drafting	1 Draft Skills 1	1 Draft Skills 3	1 Draft Elective
2 Electives	1 Draft Skills 2	1 Draft Skills 4	1 Draft Elective
	1 Foreign Lang I	1 Foreign Lang II	
			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Industrial Education **VOCATIONAL CLUSTER:** Electrical Trades and Related Technologies

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

INDUSTRIAL ELECTRICITY [No other secondary programs in this cluster.]

1 Pract Electrical/Electronics (9)

6 Indust Electricity 1-6 (10-12)

1 Indust Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: More computer application courses such as Practical Keyboarding, Practical Employability Skills, Applied Communications I and II

RECOMMENDED EXPERIENCES OR ACTIVITIES: Industrial Coop Education/OJT and Vocational Industrial Clubs of America, Inc.

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Electrician, electrical repairer

Possible Careers after Two Years of Postsecondary Training: Power generation and distribution technician, engineering aide, engineering technician, electrical technician

Possible Careers after University Education: Engineer, teacher

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Kurt B.
Student Name

000-00-0000
Student I.D.#

SAMPLE PROGRAM OF STUDY FOR AN INDUSTRIAL EDUCATION CLUSTER

Industrial Education
Program Area

Electrical Trades and Related Technologies
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Practical Electric/Electron	1 Indust Electricity 1	1 Indust Electricity 3	1 Indust Electricity 5
2 Electives	1 Indust Electricity 2	1 Indust Electricity 4	1 Indust Electricity 6
	1 Elective	1 Elective	
			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Industrial Education **VOCATIONAL CLUSTER:** Electronics and Related Technologies

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

ELECTRONICS	CONSUMER ELECTRONICS REPAIR	MICRO COMPUTER ELECTRONICS
1 Pract Electrical/Electr (9)	1 Pract Electrical/Electr (9)	1 Pract Electrical/Electr (9)
6 Electronics 1-6 (10-12)	6 Consum Elect Repair 1-6 (10-12)	6 Micro Comp Elect 1-6 (10-12)
1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: More computer application courses such as Practical Keyboarding, Computer Programming, Applied Communications I and II, Practical Employability Skills, Physics

RECOMMENDED EXPERIENCES OR ACTIVITIES: Industrial Coop Education/OJT and Vocational Industrial Clubs of America, Inc.

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Electronics repairer, electronics tester, radio and television repairer, data processing equipment repairer, computer electronics tester

Possible Careers after Two Years of Postsecondary Training: Electronics technician, data processing equipment repairer, computer service technician, mechanical engineering technician, automation equipment technician, electronic engineering technician

Possible Careers after University Education: Engineer, teacher

SAMPLE PROGRAM OF STUDY FOR AN INDUSTRIAL EDUCATION CLUSTER

Jim S.
Student Name

000-00-0000
Student I.D.#

Industrial Education
Program Area

Electronics and Related Technologies
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Algebra or Applied Math I	1 Alg II or Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Practical Electric/Electron	1 Electronics Elective 1	1 Electronics Elective 3	1 Electronics Elective 5
2 Electives	1 Electronics Elective 2	1 Electronics Elective 4	1 Electronics Elective 6
	1 Foreign Lang I	1 Foreign Lang II	
			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Industrial Education **VOCATIONAL CLUSTER:** Graphic Trades and Related Technologies

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

BASIC COMMERCIAL ART	BASIC COMMERCIAL PHOTOGRAPHY	PRINTING
1 Pract Graphics* (9)	1 Pract Graphics* (9)	1 Pract Graphics* (9)
6 Basic Comm Art 1-6 (10-12)	6 Basic Comm Photo 1-6 (10-12)	6 Printing 1-6 (10-12)
1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)

***Note:** Under development

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics or another lab-oriented science elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer application courses such as Practical Keyboarding, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: Industrial Coop Education/OJT and Vocational Industrial Clubs of America, Inc.

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Artist, detail design decorator, photographer, photographic process worker, printing press operator, offset lithographic operator, letterpress operator, pasteup/mechanical assembler, binder operator, offset press operator

Possible Careers after Two Years of Postsecondary Training: Supervisor, business owner

Possible Careers after University Education: Graphic arts technologist, teacher

SAMPLE PROGRAM OF STUDY FOR AN INDUSTRIAL EDUCATION CLUSTER

Matt G.
Student Name

000-00-0000
Student I.D.#

Industrial Education
Program Area

Graphic Trades and Related Technologies
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Algebra or Applied Math I	1 Alg II or Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Practical Visual Comm	1 Cluster Elective 1	1 Cluster Elective 3	1 Cluster Elective 5
2 Electives	1 Cluster Elective 2	1 Cluster Elective 4	1 Cluster Elective 6
	1 Foreign Lang I	1 Foreign Lang II	
			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Industrial Education **VOCATIONAL CLUSTER:** Marine Related Technologies

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

MARINE MECHANICS	COMMERCIAL FISHING	BARGE AND BOAT OPERATION
1 Pract Engine Mech (9)	1 Pract Engine Mech (9)	1 Pract Engine Mech (9)
6 Marine Mechanics 1-6 (10-12)	5 Commercial Fishing 1-5 (10-12)	3 Barge and Boat Oper 1-3 (11-12)
1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics or another lab-oriented science elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer application courses such as Practical Keyboarding, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: Industrial Coop Education/OJT and Vocational Industrial Clubs of America, Inc.

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Marine mechanic, small engine specialist, outboard motor mechanic, net fisher, line fisher, fishing vessel captain, shrimp boat deckhand, net repairer, ship, boat and barge mates, ship pilot, motorboat operator, able seaman, deck engineer, boatswain

Possible Careers after Two Years of Postsecondary Training: Supervisor, business owner

Possible Careers after University Education: Teacher

SAMPLE PROGRAM OF STUDY FOR AN INDUSTRIAL EDUCATION CLUSTER

Allen D.
Student Name

000-00-0000
Student I.D.#

Industrial Education
Program Area

Marine Related Technologies
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Algebra or Applied Math I	1 Alg II or Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Practical Indust Skills	1 Cluster Elective 1	1 Cluster Elective 3	1 Cluster Elective 5
2 Electives	1 Cluster Elective 2	1 Cluster Elective 4	1 Cluster Elective 6
	1 Foreign Lang I	1 Foreign Lang II	
			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Industrial Education **VOCATIONAL CLUSTER:** Metal Trades and Related Technologies

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

METAL FABRICATION	GENERAL MACHINING	BASIC WELDING
1 Pract Metal Work (9)	1 Pract Metal Work (9)	1 Pract Metal Work (9)
6 Metal Fabrication 1-6 (10-12)	6 General Machining 1-6 (10-12)	6 Basic Welding 1-6 (10-12)
1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics or another lab-oriented science elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer application courses such as Practical Keyboarding, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: Industrial Coop Education/OJT and Vocational Industrial Clubs of America, Inc.

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Pattern maker, model maker, machine-forming operator, structural metal fabricator, structural metal fitter, layout worker, tool and die maker, tool grinder, precision layout worker, lathe or turning machine setter-operator, mill operator, drill press operator, lathe operator, welding machine setter/operator, solderer, brazer, welder helper, welder

Possible Careers after Two Years of Postsecondary Training: Supervisor, business owner

Possible Careers after University Education: Teacher

SAMPLE PROGRAM OF STUDY FOR AN INDUSTRIAL EDUCATION CLUSTER

Jeff S.
Student Name

000-00-0000
Student I.D.#

Industrial Education
Program Area

Metal Trades and Related Technologies
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Algebra or Applied Math I	1 Alg II or Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Practical Metalwork	1 Cluster Elective 1	1 Cluster Elective 3	1 Cluster Elective 5
2 Electives	1 Cluster Elective 2	1 Cluster Elective 4	1 Cluster Elective 6
	1 Foreign Lang I	1 Foreign Lang II	
			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Industrial Education **VOCATIONAL CLUSTER:** Refrigeration, Air Conditioning/Heating Technologies

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

AIR COND/REFRIG. AND HEAT MECH	RESIDENTIAL APPLIANCE AND REFRIG REPAIR
.5 Pract Electrical/Electronics (9)	.5 Pract Electrical/Electronics (9)
6 AC, Refrigeration and Heating Mech 1-6 (10-12)	.5 Pract Home Maint (9)
	.5 Pract Appliance Serv (9)
	6 Res Appl & Ref Repair 1-6 (10-12)
1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: More computer application courses such as Practical Keyboarding, Practical Employability Skills, Applied Communications I and II

RECOMMENDED EXPERIENCES OR ACTIVITIES: Industrial Coop Education/OJT and Vocational Industrial Clubs of America, Inc.

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Heating, air conditioning, and refrigeration mechanic, electrical home appliance and power technician, air conditioning installer helper, household appliance installer

Possible Careers after Two Years of Postsecondary Training: Business owner, engineering technician

Possible Careers after University Education: Engineer, teacher, engineering technologist

SAMPLE PROGRAM OF STUDY FOR AN INDUSTRIAL EDUCATION CLUSTER

Sam G.
Student Name

000-00-0000
Student I.D.#

Industrial Education
Program Area

Refrigeration, AC/Heating Technologies
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Practical Electric/Electron	1 AC, Refrig Elective 1	1 AC, Refrig Elective 3	1 AC, Refrig Elective 5
2 Electives	1 AC, Refrig Elective 2	1 AC, Refrig Elective 4	1 AC, Refrig Elective 6
	1 Foreign Lang I	1 Foreign Lang II	
			1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Industrial Education **VOCATIONAL CLUSTER:** Services Related Technologies

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

SHOE REPAIR AND LEATHERWORK	BASIC UPHOLSTERY AND FURNITURE REFINISHING	COSMETOLOGY
.5 Pract Business Skills (9)	.5 Pract Business Skills (9)	.5 Pract Business Skills (9)
	.5 Pract Const Trades (9)	
3 Shoe Repair & Leather 1-3 (10-12)	6 Basic Upholst/Furn Ref 1-6 (10-12)	8 Cosmetology 1-8 (10-12)
1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, and two lab-oriented science electives
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: More computer application courses such as Practical Keyboarding, Applied Communications I and II, Practical Employability Skills; courses from the Academy of Entrepreneurship such as Business Ownership (See Marketing Education Clusters)

RECOMMENDED EXPERIENCES OR ACTIVITIES: Industrial Coop Education/OJT and Vocational Industrial Clubs of America, Inc.

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Shoe and leather worker, shoe repairer, upholsterer, upholstery helper, hairdresser, cosmetologist

Possible Careers after Two Years of Postsecondary Training: Business owner

Possible Careers after University Education: Not applicable

SAMPLE PROGRAM OF STUDY
FOR AN INDUSTRIAL EDUCATION CLUSTER

Sharon K.
Student Name

000-00-0000
Student I.D.#

Industrial Education
Program Area

Services Related Technologies
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9		GRADE 10		GRADE 11		GRADE 12	
1	English I	1	English II	1	Applied Comm I	1	Applied Comm II
1	Pre-Algebra	1	Algebra or Applied Math I	1	Alg II or Applied Math II	1	Geometry
1	Earth or Physical Science	1	Biology	1	Principles of Tech	1	Science, e.g., Physics
.5 .5	Life Management Skills Physical Education	1	World History	1	American History	.5 .5	Economics American Government
.5	Practical Bus Skills	1	Service Cluster Elective	1	Service Cluster Elective	1	Service Cluster Elective
2.5	Electives	1	Service Cluster Elective	1	Service Cluster Elective	1	Service Cluster Elective
		1	Elective	1	Elective		
						1	Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Industrial Education **VOCATIONAL CLUSTER:** Transportation Related Technologies

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

AUTOMOTIVE MECHANICS	BASIC GASOLINE ENGINE MECHANICS	DIESEL ENGINE MECHANICS
1 Pract Engine Mech (9)	1 Pract Engine Mech (9)	1 Pract Engine Mech (9)
6 Automotive Mech 1-6 (10-12)	6 Basic Gas Eng Mech 1-6 (10-12)	6 Diesel Eng Mech 1-6 (10-12)
1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics or another lab-oriented science elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: More computer application courses such as Practical Keyboarding, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: Industrial Coop Education/OJT and Vocational Industrial Clubs of America, Inc.

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Auto mechanic, automobile mechanic assistant, small engine specialist, gas engine repairer, bus and truck diesel engine mechanic, diesel mechanics helper

Possible Careers after Two Years of Postsecondary Training: Engineering technician, automotive service supervisor, automotive technician, business owner

Possible Careers after University Education: Teacher, technical representative

Jack C.
Student Name

000-00-0000
Student I.D.#

SAMPLE PROGRAM OF STUDY FOR AN INDUSTRIAL EDUCATION CLUSTER

Industrial Education
Program Area

Transportation Related Technologies
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Practical Engine Mech	1 Transport Elective 1	1 Transport Elective 3	1 Transport Elective 5
2 Electives	1 Transport Elective 2	1 Transport Elective 4	1 Transport Elective 6
	1 Elective	1 Elective	
			1 Coop Ed/OJT

Marketing Education

Business Ownership Cluster
- Academy of Entrepreneurship
- Business Ownership

Marketing and Distribution Cluster
- Marketing and Distribution
- Parts Marketing
- Fashion Marketing

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Marketing Education **VOCATIONAL CLUSTER:** Business Ownership

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

ACADEMY OF ENTREPRENEURSHIP	BUSINESS OWNERSHIP
.5 Pract Entrepreneurship Skills (9)	.5 Pract Entrepren Skills (9)
.5 Practical Computer Skills (9)	.5 Practical Computer Skills (9)
.5 Practical Financial Skills (9)	.5 Practical Financial Skills (9)
.5 Practical Keyboarding Skills (9)	.5 Practical Keyboarding Skills (9)
1 Principles of Entrepreneurship (10)	.5 Practical Employability Skills (10)
2 Computer Applications (10)	1 Practical Business Skills (10)
2 Marketing and Distribution (11-12)	2 Marketing and Distribution (11-12)
1 Business Management and Law (11)	
1 Business Ownership (12)	1 Business Ownership (12)
1 Marketing Coop Ed/OJT (12)	1 Marketing Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and one other lab-oriented science course elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses, speech, other communication electives, and Future Studies course

RECOMMENDED EXPERIENCES OR ACTIVITIES: Marketing Coop Education/OJT and Distributive Education Clubs of America (DECA)

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Business ownership

Possible Careers after Two Years of Postsecondary Training: Business ownership

Possible Careers after University Education: Business ownership

SAMPLE PROGRAM OF STUDY
FOR A MARKETING CLUSTER

Diane D.
Student Name

000-00-0000
Student I.D.#

Marketing Education
Program Area

Business Ownership
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Chemistry	1 Science Elective
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Practical Computer Skills .5 Pract Entrep Skills	1 Vocational Elective	1 Marketing & Dist	1 Marketing & Dist
.5 Pract Finan Skills .5 Pract Keyboard Skills			
.5 Elective	1 Elective	1 Elective	1 Business Ownership
.5 Performing Arts	1 Foreign Language I	1 Foreign Language II	1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Marketing Education **VOCATIONAL CLUSTER:** Marketing and Distribution

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

MARKETING AND DISTRIBUTION	PARTS MARKETING	FASHION MARKETING
1 Practical Business Skills (9)	1 Practical Business Skills (9)	1 Practical Business Skills (9)
.5 Explor Marketing Occup (9)	.5 Explor Marketing Occup (9)	.5 Explor Marketing Occup (9)
.5 Practical Computer Skills (9)	.5 Practical Computer Skills (9)	.5 Practical Computer Skills (9)
.5 Pract Entrepren Skills (10)	.5 Pract Entrepren Skills (10)	.5 Pract Entrepren Skills (10)
2 Marketing and Distribution (11-12)	3 Parts Marketing (10-12)	2 Fashion Marketing (11-12)
1 Marketing Coop Ed/OJT (12)	1 Marketing Coop Ed/OJT (12)	1 Marketing Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and one other lab-oriented science course elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses, speech, and other communication electives

RECOMMENDED EXPERIENCES OR ACTIVITIES: Marketing Coop Education/OJT and Distributive Education Clubs of America

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Wide range of marketing careers, parts clerk, shipping and receiving clerk, shipping packer, transportation agent, freight rate clerk, salesperson of fashion merchandise

Possible Careers after Two Years of Postsecondary Training: Marketing management, small business owner, advertising layout person, public relations specialist, supervisor, buyer, merchandise manager

Possible Careers after University Education: A variety of marketing careers are possible.

SAMPLE PROGRAM OF STUDY
FOR A MARKETING CLUSTER

Jenny C.
Student Name

000-00-0000
Student I.D.#

Marketing Education
Program Area

Marketing and Distribution
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Chemistry	1 Science Elective
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Practical Computer Skills .5 Pract Employ Skills	1 Vocational Elective	1 Cluster Elective	1 Cluster Elective
1 Pract Business Skills	.5 Pract Entrepren Skills		
.5 Explor Marketing Occup	.5 Elective	1 Elective	1 Elective
.5 Performing Arts	1 Foreign Language I	1 Foreign Language II	1 Coop Ed/OJT

Public Service Education

Education Cluster
Teaching Assisting
(Only one secondary program in this cluster)

Environmental Services Cluster
Environmental Specialist
Civil Engineering Aide

Protective Services Cluster
Criminal Justice Assisting
Fire Service Aide

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Public Service Education **VOCATIONAL CLUSTER:** Education

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

TEACHING ASSISTING [Only one secondary program in this cluster]

1 Principles of Public Service (9)

.5 Practical Computer Skills (9)

1 Typewriting 1/Fund (10)

3 Teacher Assisting 1-3 (10-12)

1 Software Applications 1 (11)

1 Public Service Occ Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course
English for Job Prep: English I, English II, and Applied Communications I and II

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and one other lab-oriented science course elective
English for College Prep: English I, II, III, and IV
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses, speech, and other communication electives

RECOMMENDED EXPERIENCES OR ACTIVITIES: Public Service Occupations Coop Education/OJT and The Florida Association of Public Service Students

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Teacher's aide, educational assistant

Possible Careers after Two Years of Postsecondary Training: Educational technician, teacher's aide

Possible Careers after University Education: Teacher

SAMPLE PROGRAM OF STUDY
FOR A PUBLIC SERVICE CLUSTER

Bert B.
Student Name

000-00-0000
Student I.D.#

Public Service Education
Program Area

Education
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra or Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Princ of Tech I	1 Princ of Tech II
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Pract Computer Skills			
1 Elective	1 Teaching Assist	1 Teaching Assist	1 Teaching Assist
1 Prin of Public Service	1 Elective	1 Software Applications 1	1 Elective
.5 Speech	1 Foreign Language I	1 Foreign Language II	1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Public Service Education **VOCATIONAL CLUSTER:** Environmental Services

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

ENVIRONMENTAL SPECIALIST*	CIVIL ENGINEERING AIDE
1 Prin of Public Service (9)	1 Prin of Public Service (9)
.5 Pract Computer Skills (9)	.5 Pract Computer Skills (9)
.5 Prin of Commun Protect (9)	.5 Prin of Commun Protect (9)
3 Environ Specialist 1-3 (10-12)	6 Civil Eng Aide 1-6 (10-12)
1 Public Service Occup Coop Ed/OJT (12)	1 Public Service Occup Coop Ed/OJT (12)

*Note: Program to be available in 1992-93

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Environmental Science, Chemistry, or another laboratory-based science course
English for Job Prep: English I, English II, and Applied Communications I and II

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and one other lab-oriented science course elective
English for College Prep: English I, II, III, and IV including courses in advanced composition
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Other computer courses, speech, and other communication electives

RECOMMENDED EXPERIENCES OR ACTIVITIES: Public Service Occupations Coop Education/OJT and The Florida Association of Public Service Students

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Environmental specialist, civil engineering aide, surveyor's helper

Possible Careers after Two Years of Postsecondary Training: Environmental technician, civil drafter, surveyor, civil engineering technician, fish and game warden

Possible Careers after University Education: Engineer, biologist, ecologist

SAMPLE PROGRAM OF STUDY
FOR A PUBLIC SERVICE CLUSTER

Student Name: Justin T.

Student I.D.#: 000-00-0000

Program Area: Public Service Education

Program Cluster: Environmental Services

Program: To be determined later by student

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 English III	1 English IV
1 Pre-Algebra or Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Chemistry	1 Environ Science
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Speech .5 Elective	1 Foreign Language I	1 Foreign Language II	1 Elective
.5 Pract Computer Skills .5 Prin of Community Protect	1 Environ Specialist 1	1 Environ Specialist 2	1 Environ Specialist 3
1 Elective	1 Prin of Public Serv	1 Elective	1 Coop Ed/OJT

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Public Service Education **VOCATIONAL CLUSTER:** Protective Services

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

CRIMINAL JUSTICE ASSISTING	FIRE SERVICE AIDE
.5 Practical Computer Skills (9)	.5 Practical Computer Skills (9)
.5 Principles of Family Protect (9)	.5 Principles of Family Protect (9)
.5 Prin of Community Protect (10)	.5 Prin of Community Protect (10)
1 Principles of Public Service (10)	1 Principles of Public Service (10)
3 Criminal Justice Assist 1-3 (10-12)	3 Fire Service Aide 1-3 (10-12)
1 Public Service Occup Coop Ed/OJT (12)	1 Public Service Occup Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course
English for Job Prep: English I, English II, and Applied Communications I and II

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and one other lab-oriented science course elective
English for College Prep: English I, II, III, and IV including courses in advanced composition
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: First Aid, CPR, other computer courses, speech, and other communication electives

RECOMMENDED EXPERIENCES OR ACTIVITIES: Public Service Occupations Coop Education/OJT and The Florida Association of Public Service Students

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Criminal justice aide, fire equipment tester and repair person, fire equipment salesperson, insurance investigator, adjuster, safety inspector, compliance investigator, fire lookout station worker, fireproofing worker

Possible Careers after Two Years of Postsecondary Training: Police corrections officer, paralegal, city planning aide, building inspector, urban planning technologist, traffic technician, regional planning aide

Possible Careers after University Education: Public defender, lawyer, corrections probation officer, public service administrator, city manager

SAMPLE PROGRAM OF STUDY FOR A PUBLIC SERVICE CLUSTER

Billy B.
Student Name

000-00-0000
Student I.D.#

Public Service Education
Program Area

Protective Services
Program Cluster

To be determined later by student
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra or Algebra	1 Applied Math I	1 Applied Math II	1 Algebra II
1 Earth or Physical Science	1 Biology	1 Princ of Tech I	1 Princ of Tech II
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Pract Computer Skills	.5 Prin of Comm Protect		
.5 Prin Family Protect	1 Cluster Elective	1 Cluster Elective	1 Cluster Elective
1 Elective	1 Prin of Public Service	2 Electives	1 Elective
.5 Elective .5 Speech	.5 Elective		1 Coop Ed/OJT

Technology Education

Aerospace Technology Cluster
Principles of Aerospace Technology

Construction Technology Cluster
Principles of Construction Technology

Drafting Technology Cluster
Principles of Drafting Technology

Electronics Technology Cluster
Principles of Electronics Technology

Energy and Power Technology Systems Cluster
Principles of Energy and Power Technology Systems

Engineering Technology Cluster
Principles of Engineering Technology

Graphic Communications Technology Systems Cluster
Principles of Graphic Communications Technology Systems

Materials and Processes Technology Cluster
Principles of Materials and Processes Technology

Production Technology Systems Cluster
Principles of Production Technology Systems

Note: No other secondary programs are in these clusters.

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Technology Education **VOCATIONAL CLUSTER:** Aerospace Technology

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

PRINCIPLES OF AEROSPACE TECHNOLOGY

1 Practical Applied Technology (9)

1 Basic Principles of Aerospace Technology (10)

1 Intermediate Principles of Aerospace Technology (11)

1 Advanced Principles of Aerospace Technology (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Tech Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Tech Prep: Earth or Physical Science, Biology, Physics, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses such as Practical Keyboarding Skills, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: The Florida Technology Student Association (FL-TSA)

CAREER INFORMATION:

Possible Careers after Advanced or Specialized Studies: Mechanical engineering technician, mechanical engineer, electrical engineer, electronics engineering technician, researcher, oceanographer, astronaut, engineer, pilot, flight engineer, aeronautical engineer, aerospace engineer, stress analyst, robotics engineer, airframe mechanic, teacher

130

Michelle T.
Student Name

000-00-0000
Student I.D.#

SAMPLE PROGRAM OF STUDY FOR A TECHNOLOGY EDUCATION CLUSTER

Technology Education
Program Area

Aerospace Technology
Program Cluster

Principles of Aerospace Technology
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Algebra or Applied Math I	1 Alg II or Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Practical Applied Tech	1 Basic Prin of Aerospace Tech	1 Interm Prin of Aerospace Tech	1 Adv Prin of Aerospace Tech
2 Electives	1 Elective	1 Elective	1 Elective
	1 Foreign Lang I	1 Foreign Lang II	1 Elective

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Technology Education **VOCATIONAL CLUSTER:** Construction Technology

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

PRINCIPLES OF CONSTRUCTION TECHNOLOGY

.5 Practical Home Maintenance (9)

1 Basic Principles of Construction Technology (10)

1 Intermediate Principles of Construction Technology (11)

1 Advanced Principles of Construction Technology (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Tech Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Tech Prep: Earth or Physical Science, Biology, Physics, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses such as Practical Keyboarding Skills, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: The Florida Technology Student Association (FL-TSA)

CAREER INFORMATION:

Possible Careers after Advanced or Specialized Studies: Carpenter's helper, masonry and tile setter's helper, bricklayer's helper, brickmason, stonemason, concrete finisher, business owner, contractor, building inspector, building construction manager, construction engineering technologist, cabinetmaker apprentice, woodworking machine operator, electrician, residential electrician's helper, plumber, pipe fitter, business owner, engineering technician painter, paperhanger, painter's helper, plasterer's helper, general maintenance repairer, mobile home installer, floor sanding machine operator, construction helper, fence erector, floor layer, carpet installer, cost estimator, surveyor, surveyor technician, teacher

SAMPLE PROGRAM OF STUDY FOR A TECHNICAL EDUCATION CLUSTER

Fred M.
Student Name

000-00-0000
Student I.D.#

Technology Education
Program Area

Construction Technology
Program Cluster

Principles of Construction Technology
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Pract Home Maintenance	1 Basic Prin of Const Tech	1 Interm Prin of Const Tech	1 Adv Prin of Constr Tech
2.5 Electives	1 Elective	1 Elective	1 Elective
	1 Elective	1 Elective	1 Elective

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Technology Education **VOCATIONAL CLUSTER:** Drafting Technology

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

PRINCIPLES OF DRAFTING TECHNOLOGY

.5 Practical Visual Communications (9)

1 Basic Principles of Drafting Technology (10)

1 Intermediate Principles of Drafting Technology (11)

1 Advanced Principles of Drafting Technology (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Tech Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Tech Prep: Earth or Physical Science, Biology, Physics, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses such as Practical Keyboarding Skills, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: The Florida Technology Student Association (FL-TSA)

CAREER INFORMATION:

Possible Careers after Advanced or Specialized Studies: Drafter, drafting assistant, junior mechanical drafter, drafting technician, engineering technician, architect, engineer, geographer, cartographer, interior designer, industrial designer, medical/scientific illustrator, surveyor, surveying technician, cost estimator, teacher

James W.
Student Name

000-00-0000
Student I.D.#

SAMPLE PROGRAM OF STUDY FOR A TECHNOLOGY EDUCATION CLUSTER

Technology Education
Program Area

Drafting Technology
Program Cluster

Principles of Drafting Technology
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Algebra or Applied Math I	1 Alg II or Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Pract Visual Comm	1 Basic Prin of Draft Tech	1 Interm Prin of Draft Tech	1 Adv Prin of Draft Tech
2.5 Electives	1 Elective	1 Elective	1 Elective
	1 Foreign Lang I	1 Foreign Lang II	1 Elective

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Technology Education **VOCATIONAL CLUSTER:** Electronics Technology

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

PRINCIPLES OF ELECTRONICS TECHNOLOGY

.5 Practical Applied Electronics (9)

1 Basic Principles of Electronics Technology (10)

1 Intermediate Principles of Electronics Technology (11)

1 Advanced Principles of Electronics Technology (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Tech Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Tech Prep: Earth or Physical Science, Biology, Physics, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses such as Practical Keyboarding Skills, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: The Florida Technology Student Association (FL-TSA)

CAREER INFORMATION:

Possible Careers after Advanced or Specialized Studies: Electronics repairer, electronics tester, radio and television repairer, data processing equipment repairer, electronics technician, computer service technician, mechanical engineering technician, automation equipment technician, electronics engineering technician, engineer, electronics engineer, robotics technician, control systems technician, sound effects technician, broadcast technician, laser technician, sound engineer, printed circuit designer, radar/sonar operator, pollution control technician, electromechanical technician, teacher

SAMPLE PROGRAM OF STUDY FOR A TECHNOLOGY EDUCATION CLUSTER

Jason P.
Student Name

000-00-0000
Student I.D.#

Technology Education
Program Area

Electronics Technology
Program Cluster

Principles of Electronics Technology
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Algebra or Applied Math I	1 Alg II or Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Pract Applied Electronics	1 Basic Prin of Electr Tech	1 Interm Prin of Electr Tech	1 Adv Prin of Elect Tech
2.5 Electives	1 Elective	1 Elective	1 Elective
	1 Foreign Lang I	1 Foreign Lang II	1 Elective

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Technology Education VOCATIONAL CLUSTER: Energy and Power Technology Systems

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

PRINCIPLES OF ENERGY AND POWER TECHNOLOGY SYSTEMS

.5 Practical Power Mechanics (9)

1 Basic Principles of Energy and Power Technology Systems (10)

1 Intermediate Principles of Energy and Power Technology Systems (11)

1 Advanced Principles of Energy and Power Technology Systems (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Tech Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Tech Prep: Earth or Physical Science, Biology, Physics, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses such as Practical Keyboarding Skills, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: The Florida Technology Student Association (FL-TSA)

CAREER INFORMATION:

Possible Careers after Advanced or Specialized Studies: There are a number of career opportunities within the Energy and Power field. Several levels of occupations exist within an industrial setting. Occupations may thus occur within these listings:

Levels of Occupations
Professional
Technical managerial
Processing
Structural manufacturing
Testing
Repair

Industrial Settings
Trucking
Automotive
Railroading
Coal mining
Petroleum exploring
Refining
Public transportation
Power plants
Utilities construction
Alternative energy systems

SAMPLE PROGRAM OF STUDY FOR A TECHNOLOGY EDUCATION CLUSTER

Bob C.
Student Name

000-00-0000
Student I.D.#

Technology Education
Program Area

Energy & Power Technology Systems
Program Cluster

Principles of Energy & Power Technology Systems
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Practical Power Mech	1 Basic Prin of Energy and Power Tech Systems	1 Interm Prin of Energy and Power Tech Systems	1 Adv Prin of Energy and Power Tech Systems
2.5 Electives	1 Elective	1 Elective	1 Elective
	1 Elective	1 Elective	1 Elective

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Technology Education **VOCATIONAL CLUSTER:** Engineering Technology

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

PRINCIPLES OF ENGINEERING TECHNOLOGY

.5 Practical Applied Electronics (9)

1 Basic Principles of Engineering Technology (10)

1 Intermediate Principles of Engineering Technology (11)

1 Advanced Principles of Engineering Technology (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Tech Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Tech Prep: Earth or Physical Science, Biology, Physics, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses such as Practical Keyboarding Skills, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: The Florida Technology Student Association (FL-TSA)

CAREER INFORMATION:

Possible Careers after Advanced or Specialized Studies: Electrician, electrical repairer, power generation and distribution technician, engineering aide, engineering technician, electrical technician, mathematician, scientist, inventor, research engineer, stress analyst, safety engineer, robotics engineer, laser technician, engineer, electrical engineer, mechanical engineer, chemical engineer, civil engineer, biotechnical engineer, teacher

Jerry C.
Student Name

000-00-0000
Student I.D.#

SAMPLE PROGRAM OF STUDY FOR A TECHNOLOGY EDUCATION CLUSTER

Technology Education
Program Area

Engineering Technology
Program Cluster

Principles of Engineering Technology
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Algebra or Applied Math I	1 Alg II or Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Pract Applied Electronics	1 Basic Prin of Eng Tech	1 Interm Prin of Eng Tech	1 Advanced Prin of Eng Tech
2.5 Electives	1 Elective	1 Elective	1 Elective
	1 Foreign Lang I	1 Foreign Lang II	1 Elective

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Technology Education **VOCATIONAL CLUSTER:** Graphic Communications Technology Systems

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

PRINCIPLES OF GRAPHIC COMMUNICATIONS TECHNOLOGY SYSTEMS

.5 Practical Visual Communications (9)

1 Basic Principles of Graphic Communications Technology Systems (10)

1 Intermediate Principles of Graphic Communications Technology Systems (11)

1 Advanced Principles of Graphic Communications Technology Systems (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Tech Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Tech Prep: Earth or Physical Science, Biology, Physics, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses such as Practical Keyboarding Skills, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: The Florida Technology Student Association (FL-TSA)

CAREER INFORMATION:

Possible Careers after Advanced or Specialized Studies: Artist, detail design decorator, photographer, photographic process worker, printing press operator, offset lithographic operator, letterpress operator, pasteup/mechanical assembler, binder operator, offset press operator, supervisor, business owner, graphic arts technologist, computer typesetter, platemaker, copywriter, photoengraver, cinematographer, videographer, screen process printer, illustrator, graphic artist, desktop publisher, teacher

Gary C.
Student Name

000-00-0000
Student I.D.#

SAMPLE PROGRAM OF STUDY FOR A TECHNOLOGY EDUCATION CLUSTER

Technology Education
Program Area

Graphic Communications Technology Systems
Program Cluster

Principles of Graphic Communications Technology Systems
Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Applied Math I	1 Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Practical Visual Comm	1 Basic Prin Graphic Comm Tech Systems	1 Interm Prin Graphic Comm Tech Systems	1 Adv Prin Graphic Comm Tech Systems
2.5 Electives	1 Elective	1 Elective	1 Elective
	1 Elective	1 Elective	1 Elective

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Technology Education **VOCATIONAL CLUSTER:** Materials and Processes Technology

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

PRINCIPLES OF MATERIALS AND PROCESSES TECHNOLOGY

.5 Practical Industrial Skills (9)

1 Basic Principles of Materials and Processes Technology (10)

1 Intermediate Principles of Materials and Processes Technology (11)

1 Advanced Principles of Materials and Processes Technology (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Tech Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Tech Prep: Earth or Physical Science, Biology, Physics, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses such as Practical Keyboarding Skills, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: The Florida Technology Student Association (FL-TSA)

CAREER INFORMATION:

Possible Careers after Advanced or Specialized Studies: Pattern maker, model maker, machine forming operator, structural metal fabricator, structural metal fitter, layout worker, tool and die maker, tool grinder, precision layout worker, lathe or turning machine setter-operator, mill operator, drill press operator, lathe operator, welding machine setter/operator, solderer, brazer, welder helper, welder supervisor, business owner, CNC machine operator, robotics technician, extruding and forming machine operator, nondestructive tester, stress analyst, computer programmer-numerical control systems technician, metallurgical technician, teacher

SAMPLE PROGRAM OF STUDY FOR A TECHNOLOGY EDUCATION CLUSTER

Kelly T.
Student Name

000-00-0000
Student I.D.#

Technology Education
Program Area

Materials & Processes Technology
Program Cluster

Principles of Materials & Processes Technology
Program

COURSE TITLES

GRADE 9		GRADE 10		GRADE 11		GRADE 12	
1	English I	1	English II	1	Applied Comm I	1	Applied Comm II
1	Pre-Algebra	1	Applied Math I	1	Applied Math II	1	Geometry
1	Earth or Physical Science	1	Biology	1	Principles of Tech	1	Science, e.g., Physics
.5 .5	Life Management Skills Physical Education	1	World History	1	American History	.5 .5	Economics American Government
.5	Pract Indust Skills	1	Basic Prin of Materials & Processes Technology	1	Interm Prin of Materials & Processes Technology	1	Adv Prin of Materials & Processes Technology
2.5	Electives	1	Elective	1	Elective	1	Elective
		1	Elective	1	Elective	1	Elective

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Technology Education **VOCATIONAL CLUSTER:** Production Technology Systems

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

PRINCIPLES OF PRODUCTION TECHNOLOGY SYSTEMS

1 Practical Applied Technology (9)

1 Basic Principles of Production Technology Systems (10)

1 Intermediate Principles of Production Technology Systems (11)

1 Advanced Principles of Production Technology Systems (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Tech Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Tech Prep: Earth or Physical Science, Biology, Physics, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses such as Practical Keyboarding Skills, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: The Florida Technology Student Association (FL-TSA)

CAREER INFORMATION:

Possible Careers after Advanced or Specialized Studies: Mechanical engineering technician, automation equipment technician, electronics engineering technician, materials researcher, tester, engineer, management production supervisor, quality control technician, numerical control system operator, teacher

SAMPLE PROGRAM OF STUDY FOR A TECHNOLOGY EDUCATION CLUSTER

Richard G.
Student Name

000-00-0000
Student I.D.#

Technology Education
Program Area

Production Technology Systems
Program Cluster

Principles of Production Technology Systems
Program

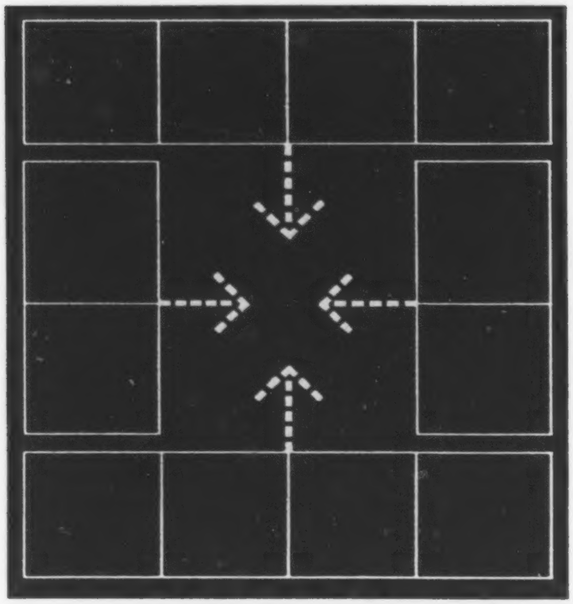
COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 Applied Comm I	1 Applied Comm II
1 Pre-Algebra	1 Algebra or Applied Math I	1 Alg II or Applied Math II	1 Geometry
1 Earth or Physical Science	1 Biology	1 Principles of Tech	1 Science, e.g., Physics
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
1 Pract Applied Tech	1 Basic Prin of Production Tech Systems	1 Interm Prin of Production Tech Systems	1 Adv Prin of Production Tech Systems
2 Electives	1 Elective	1 Elective	1 Elective
	1 Elective	1 Elective	1 Elective

SAMPLE INFORMATION PACKET

Note: The following material is designed to assist districts in providing information and marketing their vocational programs to students and parents. Districts are encouraged to customize the material to reflect the sequence of vocational courses and programs offered at their local high schools. The material could then be duplicated and sent home with students to help them design their four-year program of studies.

How Vocational-Technical Courses Fit into Your Career Plans



An Information Packet from Your High School

List of Vocational Programs Available at Your High School

Business Education Programs
- Accounting
- Bookkeeping
- Clerk Typist
- Secretarial

Health Occupations Programs
- Home Health Aide
- Nursing Assistant

Home Economics Education Programs
- Child Care Assisting
- Food Production and Services

Industrial Education Programs
- Drafting
- Mechanical Drafting Skills
- Electronics

Marketing Education Programs
- Marketing and Distribution

Diversified Occupations Education Programs
- Diversified Cooperative Training

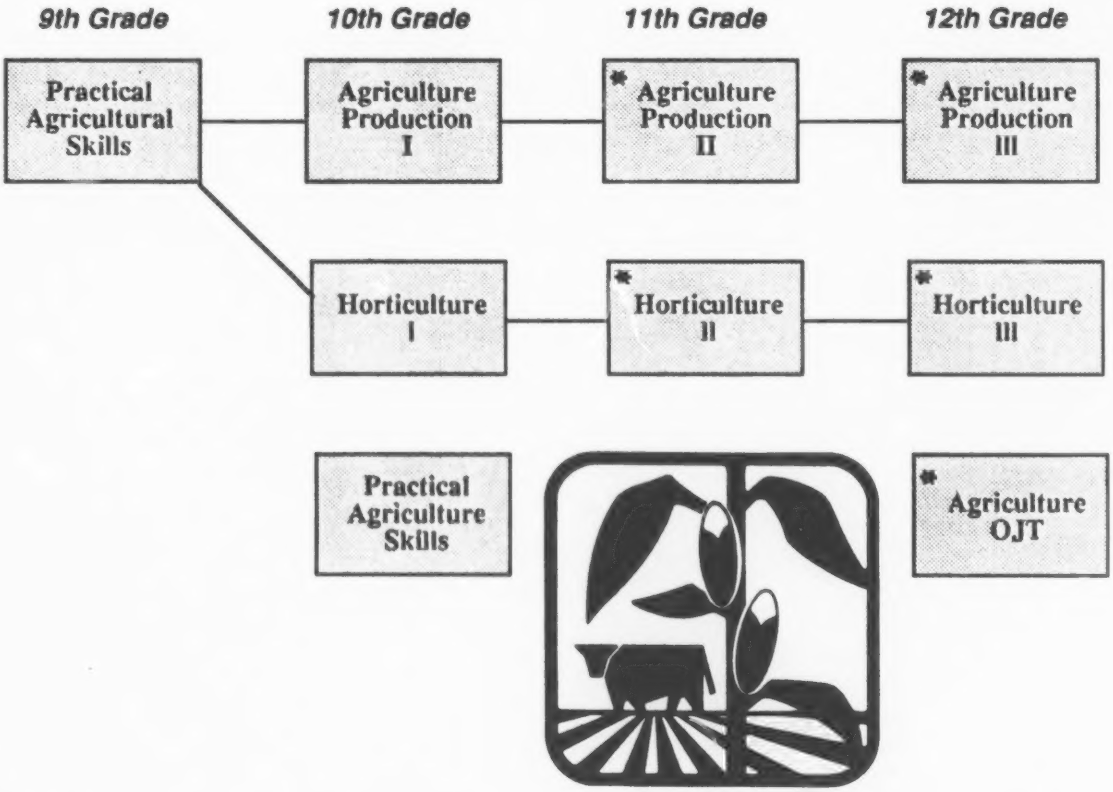
Technology Education Programs
- Principles of Engineering Technology

SAMPLE

Sequences of Courses Offered at Your High School

(Note: The sample shown on the next two pages was graciously provided by Lake Gibson High School in Polk County. Local districts are encouraged to develop their own displays of sequences and include them here as part of the information packet to be given students.)

LGHS
Agriculture Department


9th Grade
10th Grade
11th Grade
12th Grade
Practical Agricultural Skills
Agriculture Production I
* Agriculture Production II
* Agriculture Production III
Horticulture I
* Horticulture II
* Horticulture III
Practical Agriculture Skills
* Agriculture OJT

*Indicates Teacher approval is necessary for this course.

Grade Level Entry
may be different than as listed.

Agriculture Department

Practical Skills in Agricultural Science year 1 credit

Instruction provides subject matter and learning experiences designed to develop basic competencies common to all agribusiness program areas. Instruction is provided in areas of plant, animal and soil science, forestry agricultural mechanics, agricultural products processing, supplies and service, natural resources and ornamental horticulture, leadership activities provided through the FFA.

Agriculture Production 1 year 1 credit

This program prepares persons for employment and includes use of facilities, land, water, machinery and labor in production of plants, and animal breeding, livestock, harvesting, disease control, recordkeeping, machinery operation and maintenance. Prerequisites: None

Agriculture Production II year 1 credit

This program prepares persons for employment and includes use of facilities, land, water, machinery and labor in production of plants and animals breeding, livestock, harvesting, disease control, record keeping, machinery operation and maintenance. Leadership activities through FFA.

Agriculture Production III year 1 credit

This program prepares persons for employment and includes use of facilities, land, water, machinery, and labor in production of plants and animal breeding, livestock, harvesting, disease control, record keeping, machinery operation maintenance, leadership activities through FFA.

Ornamental Horticulture I year 1 credit

This program prepares persons for employment and includes production, processing marketing of plants, landscaping, and the use and maintenance of equipment.

Ornamental Horticulture II year 1 credit

This program prepares persons for employment and includes production, processing, marketing of plants, landscaping and the use and maintenance of equipment. Leadership activities provided through FFA.

Ornamental Horticulture III year 1 credit

This program prepares persons for employment and includes production, processing, marketing of plants, landscaping and the use and maintenance of equipment. Leadership activities provided through FFA.

Agribusiness Cooperative Education OJT year up to 3 credits

This program prepares persons for employment and includes use of facilities, land, water, machinery and labor in production of plants and animals breeding, livestock, harvesting, disease control, record keeping, machinery operation and maintenance. Leadership activities through FFA. Coop is an arrangement between school and employers. When used, additional credits may be added to the program length.

Information about Vocational Programs That Matches Your Interests

(The following pages illustrate how exerpts from this document can be photocopied and given to students who are interested in specific programs such as Agriscience Cluster #1 or Marine Related Technologies.)

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Agriculture Education **VOCATIONAL CLUSTER:** Agriscience #1

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

AGRITECHNOLOGY	ENVIRONMENTAL HORTICULTURE	NATURAL RESOURCES
1 Fund of Agriscience (9)	1 Fund of Agriscience (9)	1 Fund of Agriscience (9)
1 Agriscience Found (10)	1 Agriscience Found (10)	1 Agriscience Found (10)
1 Agritechnology I (11)	1 Intro to Horticulture (11)	1 Forest Ecosystems (11)
1 Agritechnology II (12)	1 Horticulture Science (12)	1 For Nat Resources (12)
1 Applied Ag Skills (12)	1 Applied Ag Skills (12)	1 Applied Ag Skills (12)
-OR-	-OR-	-OR-
1 Ag Coop Ed/OJT (12)	1 Ag Coop Ed/OJT (12)	1 Ag Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, and Botany or Ecology

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus (Honors level as much as possible)
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics, Botany, Ecology, or Biology II
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer courses

RECOMMENDED EXPERIENCES OR ACTIVITIES: Agribusiness Coop Education/OJT, FFA, and Supervised Agricultural Experiences (SAE) Program

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Farm worker, nursery worker, landscape aide, plant propagator, forest worker, tree planter

Possible Careers after Two Years of Postsecondary Training: Supervisor and farm or forest manager, food technician, inspector, farm machine operator, golf course superintendent, landscaper, landscape designer, greenskeeper, forest technician, forest ecologist

Possible Careers after University Education: Agricultural scientist, agricultural engineer, biological scientist entomologist, nematologist, agronomist, ag economist, food and environmental inspector, landscape architect, ag extension agent, veterinarian, ag journalist, agricultural educator

VOCATIONAL CLUSTER INFORMATION SHEET

PROGRAM AREA: Industrial Education **VOCATIONAL CLUSTER:** Marine Related Technologies

Vocational Course Sequences for This Cluster:
(Note: Grade level in which course should be taken is shown in parentheses.)

MARINE MECHANICS	COMMERCIAL FISHING	BARGE AND BOAT OPERATION
1 Pract Engine Mech (9)	1 Pract Engine Mech (9)	1 Pract Engine Mech (9)
6 Marine Mechanics 1-6 (10-12)	5 Commercial Fishing 1-5 (10-12)	3 Barge and Boat Oper 1-3 (11-12)
1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)	1 Indust Coop Ed/OJT (12)

STRONGLY RECOMMENDED ACADEMIC COURSES: 4 credits in science and math

Math for Job Prep: Pre-Algebra, Applied Math I, Applied Math II, and Algebra II or Geometry
Science for Job Prep: Earth or Physical Science, Biology, Chemistry, Principles of Technology, or a laboratory-based science course

Math for College Prep: Algebra I, Geometry, Algebra II, and Calculus
Science for College Prep: Earth or Physical Science, Biology, Chemistry, and Physics or another lab-oriented science elective
Foreign Language is suggested for college prep.

SUGGESTED ELECTIVES: Computer application courses such as Practical Keyboarding, Applied Communications I and II, Practical Employability Skills

RECOMMENDED EXPERIENCES OR ACTIVITIES: Industrial Coop Education/OJT and Vocational Industrial Clubs of America, Inc.

CAREER INFORMATION:

Possible Direct-Entry Careers after High School: Marine mechanic, small engine specialist, outboard motor mechanic, net fisher, line fisher, fishing vessel captain, shrimp boat deckhand, net repairer, ship, boat and barge mates, ship pilot, motorboat operator, able seaman, deck engineer, boatswain

Possible Careers after Two Years of Postsecondary Training: Supervisor, business owner

Possible Careers after University Education: Teacher

Planning Your High School Program of Study

(The next two pages display two sample programs of study that might have been drafted with a student. The first program of study is for an accounting cluster and the other is for a bookkeeping program. The last page is a work sheet form for drafting the student's program of study.)

PROGRAM OF STUDY WORK SHEET*

Student Name	Sharon B.
Student I.D.#	123-45-6789
Program Area	Business Education
Program Cluster	Accounting
Program	TBD

[Note: This shows the work sheet for Sharon B., a student who is not sure which program she wants to "major in." Her program of study is actually a "cluster of study" until she decides which program is for her.]

* Assumes a 7-Period Day

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 English III	1 English IV
1 Math (Pre-Algebra)	1 Math (Applied Math I)	1 Math (Applied Math II)	1 Math (Algebra II)
1 Science (Earth Science)	1 Science (Biology)	1 Science (Chemistry)	1 Science (Prin of Tech)
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Practical Computer Skills or .5 Performing Arts (Band)	1 Typing/Fund	1 Accounting 1	1 Bus Comp Appl
.5 Pract Finan Skills	1 Spanish 1	1 Spanish 2	1 Coop Ed/OJT
1.5 Other Electives	1 Elective	1 Cluster Elective	1 Cluster Elective

John C.
Student Name

312-22-4664
Student I.D.#

PROGRAM OF STUDY WORK SHEET*

[Note: This shows the work sheet for John C., a student who _is_ sure that he wants to study Bookkeeping.]

Business Education
Program Area

Accounting
Program Cluster

Bookkeeping
Program

*Assumes a 7-Period Day

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English I	1 English II	1 English (Applied Comm I)	1 English (Applied Comm II)
1 Math (Pre-Algebra)	1 Math (Applied Math I)	1 Math (Applied Math II)	1 Math (Algebra II)
1 Science (Earth Science)	1 Science (Biology)	1 Science (Prin of Tech I)	1 Science (Prin of Tech II)
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Practical computer Skills or .5 Performing Arts	1 Typing / Fund.	1 Accounting 1	1 Accounting 2
2 Electives	1 Elective	2 Electives	1 Bus Comp Appl
	.5 Pract Fin Skills .5 Drivers Ed		1 Coop / OJT

PROGRAM OF STUDY WORK SHEET

Student Name

Student I.D.#

Program Area

Program Cluster

Program

COURSE TITLES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
1 English	1 English	1 English	1 English
1 Math	1 Math	1 Math	1 Math
1 Science	1 Science	1 Science	1 Science
.5 Life Management Skills .5 Physical Education	1 World History	1 American History	.5 Economics .5 American Government
.5 Practical Skills or .5 Performing Arts			

State of Florida
Department of Education
Tallahassee, Florida
Betty Castor, Commissioner
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